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REPORTS
OF THE OSTEUROPA-INSTITUTE
OF THE FREE UNIVERSITY BERLIN
NUMBER 30

MEDICAL SERIES

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Soviet Helminthology

MEDICAL SERIES

PUBLISHED

BY PROFESSOR DR. MAX BRANDT

BERLIN 1957

SOVIET HELMINTHOLOGY

(Literature Survey for the Years 1946 - 1953)

by

Dr. B. Hoerning

Medical Series

of the

Reports of the Osteuropa Institute of the Berlin Free University

Published by Prof. Dr. med. Max Brandt

Medical Series Number 13

1 March 1957

For the first time in the Medical Series of these Reports, a contribution also appears on Veterinary Medicine concerning helminthological problems, which are presented on the basis of Soviet Russian literature from the years 1946 - 1953.

This is a peripheral area of human medicine, in which the Russians have been zealously active; indeed, area-wise, they have at their disposal a vast research realm where various scientific expeditions headed by the noted parasitologist Skryabin have recently been productively successful. We can therefore be thankful that Hoerning's compilation of this research work and of related Soviet literature is now available to us. This compilation will afford good service for scientific work in this field.

The Publisher

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Brief Summary of Soviet Publications in the Field
of
General and Comparative Helminthology in the Years
1946 through 1953

Introduction

The purpose of this essay is to survey the helminthological work in the Soviet Union since the end of World War II.

The difficulty in obtaining access to the pertinent literature imposes a certain limitation to the material under consideration. The bibliography given at the end comprises all publications from 1946 through 1953 known to the author, but does not claim to be complete. Though the periodicals and the majority of the monographs relating to the subject could be obtained, a number of articles contained in periodicals of marginal fields or published by universities, academies and other institutes in the various republics of the Soviet Union are not available in Germany. This investigation includes helminth parasites in man, mammals and birds; it does not deal with therapy or with helminthiasis of fish, amphibious animals and reptiles nor has phytohelminthology been considered.

In the Soviet Union, three central research institutes, all located in Moscow, specialize in helminthological theory and research: the All-Union Institute for Helminthology (K. I. Skryabin Institute) of the Ministry of Agriculture of the Soviet Union; the Helminthology Laboratory of the Academy of Sciences of the USSR; and the Helminthology Section of the Institute for Malaria and Medical Parasitology of the Ministry of Public Health. These institutions issue the following magazines more or less regularly: Trudy Vsesoyuznogo Instituta Gel'mintologii imeni Skryabina of which, during the period under consideration, Volume 4 was published in 1950 and Volume 5 in 1953; Trudy Gel'mintologicheskoy Laboratorii, of which the Volumes 1-6 were published in the years 1948 through 1952; and Meditsinskaya Parazitologiya

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i parazitarnye bolezni, of which one volume is published annually. Regular articles on helminthology are also contained in Doklady Akademii Nauk SSSR and in Parazitologicheskiy Sbornik, the latter published by the Zoological Institute of the Academy of Sciences of the USSR under the direction of E. N. Pavlovskiy who is a professor at the Academy of Military Medicine in Leningrad. Furthermore, a few collections of helminthology works dedicated to K. I. Skryabin appeared in 1946*, 1948** and 1953***.

Konstantin Ivanovich Skryabin founded a branch of science called geographic helminthology. This special type of research is based on so-called helminthological expeditions of which, under his direction or control, more than 250 have been carried out since 1919. The results of some of these expeditions since the end of World War II have been published in Trudy Gel'mintologicheskoy Laboratori.

The work of the Soviet helminthologists is coordinated by the Helminthological Association (Vsesoyuznoye Obshchestvo Gel'mintologov Akademii Nauk SSR), affiliated with the Academy of Sciences of the USSR. The reports of the meetings of the Association are also published in Trudy Gel'mintologicheskoy Laboratori.

Dissertations and examination papers relating to helminthology will be mentioned only insofar as reports appeared in Trudy Gel'mintologicheskoy Laboratori. The original texts are not accessible, with a few exceptions in which they were later published as monographs (Mozgovoy, Ryzhikov, Spasskiy).

* Gel'mintologicheskiy sbornik, Posvyashch. K. I. Skryabiniu. Moskva-Leningrad 1946.

** Sbornik rabot po gel'mintologii, Posvyashch. 40-let. deyat. K. I. Skryabina. Moskva 1948.

*** Raboty po gel'mintologii k. 75-letiyu. K. I. Skryabina. Moskva 1953.

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The material in this summary will be treated under the following headings:

- I. General Remarks (Textbooks, Summaries)
- II. Clinical Observation (Including Diagnosis and Immunity)
- III. Pathology
- IV. Epidemiology
- V. Systematics
- VI. Biology
- VII. Helminthogeography
- VIII. Final Remarks
- IX. Bibliography
- X. List of Geographical Names and Regions (With a Map)

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I. General Remarks (Textbooks, Summaries)

Let us first present the titles of some instruction manuals and handbooks published or of which new editions appeared in the period under consideration.

In 1947, the second edition of the Course in General Parasitology by Dogel appeared and in 1950 the Elements of Parasitology by Markevich. Pavlovskiy edited a handbook and a manual on the parasitology of man (Handbook: fifth edition, 1946a, two volumes; Manual: 1951). In 1950, Skryabin, Petrov, Orlov, Markov, Caprun and Shalyaev edited the sixth edition of the Course in Parasitology of Domestic Animals; in 1947, Machulskiy edited The Essential Parasitical Diseases of Agricultural Domestic Animals and their Control. In 1947, Pukhov edited Helminthiases of Sheep and in 1953 Potemkina treated The Essential Helminthiases of Domestic Fowl. The helminth diseases of man were treated in the following manuals: Leykina (1948a), Podyapolskaya & Kapustin (1950), Sholle (1946) and Vasilkova (1948, 1950 & 1953a); also, a small book by Samadov (1947b), Parasitic Nematodes and their Control. Other small brochures on the subject were by Chirkov (1948), Boev (1946a), Velitskin (1947c), and Zaskind (1951).

In the Great Soviet Encyclopedia, Antipin (1952) treated a few sections related to helminthology. Skryabin (1946a) wrote a book on the history and organization of Russian helminthological research. He also (1948c) gave a description of the Helminthology Laboratory of the Academy of Sciences of the USSR. Helminthology in Kazakhstan was described by N. P. Orlov (1946) and Galuzo (1946). In 1947, Parasitology of the Far East was issued by Medgiz, edited by Pavlovskiy. In 1948, the Main Administration for Natural Reservations in the Soviet Union published a compilation under the title Parasitic Fauna and Diseases of Wild Animals. Levashov (1949) and Shumakovitch and Borisovich (1950) dealt with the entire Russian helminthological literature

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in bibliographic form. Particular attention is drawn to these two voluminous, though incomplete, works. Unfortunately, they contain many misprints and misquotations which, however, do not diminish their value.

The following lesser reports deal with questions relating to parasitology in general: Gnedilov (1951), Massino (1947), Moshkovskiy (1946), Pavlovskiy (1946a, 1948a) and Pod-Yapol'skaya (1952). These, as well as some political polemic writings, such as those by Pavlovskiy, 1948b, N. P. Orlov, 1948, Sobolev, 1950, and Skryabin, 1948d and 1952a, cannot be gone into here.

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II. Clinical Observation (Including Diagnosis and Immunity)

This section may be begun by mention of some of the more general works. In a work written in the Ukrainian language, Gerbilskiy (1947) examines the role of the invasions of worms in the origin of infectious diseases. Velichkin (1948b) pointed to the relationship between worm infestation and para-typhoid infections in young horses. In 1947, Lutta examined the influence of vitamins on parasitic diseases. Several publications described the reaction of the various tissues of the body attacked by worms: Talyzin 1949 (alimentary canal), V. D. Semenov 1953 (blood), Vsevolodov 1948c (lungs).

A large number of works are devoted to ascariasis in man and animals: Pod-Yapolskaya (1950) gives a survey of the clinical aspect of ascariasis; Krylova (1947) reports some complicated cases of ascariasis in man. Early stages of ascariasis and problems of the wandering of larvae are examined in the works by Semenova (1953) and Gerbilskiy (1953). A monograph is devoted to ascariasis of the liver and of the bile ducts (Ovnatanyan 1952). Vinnitskiy (1946a) examined the cause of perforations by Ascaris suum in the healthy tissue of guinea pigs and cats. Meshcheryakov (1948a and b) and Krotov (1948) examined the toxicity of ascaridae or of preparations made from them. Among noteworthy studies and publications relating to ascariasis of animals are those of toxocariasis of the kidneys of foxes (Petrov & Naletov 1949), of parascariasis of horses (Antipin 1948b, Antipin & Stepanova 1948, Segal 1946) and Ascaridae of chickens (Shikhbalova & Kustova 1950, Shikhbalova, Kustova & Kosilova 1951).

Spontaneous recovery from oxyuriasis was the subject of a report by Geller 1946a (tests with Passalurus ambiguus on rabbits).

Trichinosis of human beings was dealt with in monographic form by Kalyus (1950, 1952). Monoszon (1946) studied the changes caused by this illness on the organs of vision and of hearing. Among the clinical symptom-

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he found, in some cases, a retardation of the reaction of the pupils to the effect of light and disturbances of the nervus oculomotorius and of the nervus acusticus due to the toxins of the parasite. Semenova (1946) observed, in 1943, serious cases of trichinosis in White Russian partisans who had eaten raw pork. Ulyanov (1953) studied the seasonal deviations of Haemonchus in various sheep farms in Kazakhstan; he observed an increase in infections in adult animals and young sheep between one and two years of age in the months of April-May and October-November.

In a thesis of veterinary science, Ivashkin (1948) reported examination of mecostocirriasis of cattle in the Soviet Far East. The agent, Mecistocirrus digitatus (v. Linstow, 1906), is a hematophagous nematode of the Trichostrongylidae family and is found, in winter and spring, in the abomasum of 50 to 60 percent of the cattle examined.

The various aspects of strongyloidiasis of horses are examined in several writings by Velichkin: Delafondiosis* of the blood-vessels, 1946c, 1947a, 1948a; alfortiosis* 1948c and 1952.

The works by Velichkin (1946a) and Tiunov (1951) on trichonematinosis are also noteworthy.

A short communication on the strongyloidiasis of pigs is contained in Malygin (1952).

Pulmonary worm infestation of ruminants is treated by Kalashnikov 1947 and Avdeev 1947. Two communications on the relatively rare dictyocaulosis of horses (dictyocaulus arnfieldi) were given by Michnyuk & Muler 1947 and Akramovskiy 1952. Stomach worm infection in geese (amidostomatosis) has been examined by Lozovskiy 1949.

* Alfortiosis is the illness caused by Strongylus edentatus; delafondiosis is caused by Strongylus vulgaris.

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In several works, Gorshkov studied habronemiasis (1948b), (1947) and drascheiosis (1947, 1946) of horses. The latter work (Gorshkov 1946) gives a short report on the clinical pictures of artificial infection with Draschia megastoma. Gorshkov noticed gastritis, anemia of the mucous membranes, a decrease of the hemoglobin content and in the number of red cells, as well as a periodic short elevation of temperature. The severity of the clinical symptoms depended on the intensity of the invasion.

Research in thelaziasis was carried out by Zayanchkovskiy (1947) and Krastin & Ivaskin (1948). Ivashkin (1953) describes the infection of the eyes of the yak in Mongolia by Thelazia gulosa, Railliet and Henry, 1910, and Th. Skryabinii, Ershov, 1928, transmitted by the fly Musca amica.

The knowledge of Gongylonema pulchrum in men has been enlarged by Kamalov (1953b) who reported one more case. In 1951, he found several specimens of this parasite in a 22 year old mechanic in Tbilisi.

Dirofilariasis of the skin of dogs was studied by Shleykher (1948). Research in the correlation between setariasis and equine infectious anemia was done by A. I. Orlov (1948). Pirog (1947) and Krasnoperov (1951) wrote on oncocercosis. The latter classified the stages of oncocercosis attacking the withers of a horse as follows: 1) oncocercosis without symptoms; 2) aseptic form of oncocercosis; 3) oncocercosis accompanied by suppurative and necrotic processes. In connection with these nematode infections, a work by Shcherbovich (1948a) on the clinical observation of horses attacked by Ma racanthorhynchus is of interest.

Two longer reports by Shults (1951b, 1951c) are devoted to schistosomiasis and to schistosome dermatitis. Plotnikov (1953) edited a monograph on opisthorchiasis. The clinical changes observed in Armenian sheep attacked by Fasciola gigantica were described by Grigoryan (1953).

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Mention must also be made of some publications on the various forms of taeniasis: Velichkin (1946b) studied the problems of horses in an enclosure attacked by Anoplocephalidae. Talyzin (1948) observed the effect of Taeniarhynchus saginatus extract on the intestine of rabbits. V. S. Semenov (1950) and Latta (1946) were occupied with echinococcosis. Kevorkov (1946) observed the influence of attacks by Hymenolepis nana and Hymenolepis fraterna on pregnant women and rats and mice. The natural elimination of a hymenolepis invasion did not take place in pregnant individuals.

In speaking of the diagnosis of helminthiasis, some of the more general works should first be mentioned. Pavlovskiy & Smirnov (1948) edited a small textbook of helminthological diagnosis. Geselevich (1950) occupied himself with X-ray diagnosis of some forms of worm infestation in man. Shichobalova & Leykina (1949) and Leykina (1950) reported diagnostic serological reactions.

Skornyakov (1948) dealt with worm infestation of the pancreas of cattle.

Other publications dealt with alariosis in foxes (Petrov & Dubnitskiy, 1950c) and stichorchosis in beavers (I. V. Orlov, 1948c).

Kasyanov (1953) noticed skryabinotrematosis in sheep. This illness, frequent in the central regions of Asia, is caused by the trematode Skryabinotrema ovis in the small intestine (Orlov, Ersov and Badanin, 1933).

A short communication by Kapitanaki (1946) gives details on the attack of horses by Anoplocephalidae.

Kamalov (1953) attempted to work out the comparative characteristics of the ova and oncospheres of Taeniarhynchus saginatus and Taenia solium. Burdelev (1948) investigated the occurrence of Echinococcus in sheep with allergic reactions. An interesting method of early diagnosis of coenurosis of sheep was described by Ronzhina (1953). The use of an ophthalmoscope permitted a change in the papilla of the optic nerve to be seen. Differential

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diagnosis can thus exclude an attack by Oestrus and Cysticerus tenuicollis, which do not produce such a change. Furthermore, experiments on spinal fluid were made and its composition was different in animals sick with coenuriasis from that of healthy animals.

Finally, two works by Abuladze (1946a and b) mention that taeniasis has been detected in domestic ducks.

The following works are available on immunodiagnosis of ascariasis: Leykina (1953), Leykina, Gayko, Chelysheva and Bokshteyn (1952), and Ershov, Krikunov, Plakhotnya and Gorobets (1953). Detection of trichocephaliasis in sheep is treated by Artyukh (1947); in men by Paretskaya (1949). Velichkin (1947b) examined larvae of Strongyloidea in horses (Strongylus edentatus, Strongylus vulgaris, Trichonema spp.). Publications on the detection of ova in echinuriasis in waterfowl (N. G. Shakhnazarova, 1946) and in cyathostomiasis in emus (Romanova, 1946) should also be mentioned.

On pulmonary worm infestation only a few short publications are available: I. V. Orlov (1946c) reported the detection of larvae in calves. Other authors describe immunodiagnostic methods. (Pukhov, Reshetnyak and Krivoshta, 1953, examined sheep attacked by dictyocauliasis; Gevondyan, 1953, reported sheep attacked by Muellerius). Trichinosis is described in the communications by Lemishko (1948) and Ozerskaya (1948). Among the treatises of filariasis are: Klenin (1948), (identification of Setariae in cattle); A. I. Orlov (1947), (microfilaria in the blood of horses); Palimpeetov (1952), (Onchocerca reticulata of horses); Gnedenina (1948b), (allergic cutaneous reaction in oncocerciasis of cattle). Identification of thelaziasis in cattle was attempted by Klesov (1947) and Krastin (1948).

Much attention has been paid to immunobiological questions. Shikhobalova (1950) published a monograph on immunity in helminthiasis. Shikhobalova and Leykina (1948) report methods of vaccination and passive immunization. In their experiments, active immunization proved more effective than passive. In addition the donor of the serum must have been immunized by an infection, not by vaccination. The blood should not be withdrawn until a sufficient amount of antibodies has been formed.

A historical survey on research on immunity in helminthiasis was given by Shikhobalova (1950) in a lecture before the Helminthological Society of the Academy of Sciences. Experimenting on pigs and rabbits, Nosik (1953) studied the immunity brought about by age in cases of echinococcosis, cysticercosis (Cysticercosis pisiformis and Cysticercosis tenuicollis) and ascariasis. Other general works on this problem are by Markov (1946b), Lutta (1948), Leykina (1946), Davtyan and Shults (1949b, 1950) Shults and Davtyan (1951b); Leontyev (1946) examined the role played by Vitamin A in the immunity of experimental helminthiasis.

A detailed description of immunity in schistosomiasis has been given by Shults and Davtyan (1951a).

Evaluating the results of experiments in dogs artificially infected with Echinococcus granulosus, Nosik (1949c) showed that the intestine of dogs exhibits no acquired immunity or immunity due to old age against echinococcosis. On the other hand, cattle, pigs and sheep, according to Nosik (1952b), possess an immunity due to old age as well as an immunity against a superinvasion of echinococcosis. Pukhov, Zinichenko and Chernobaev (1953) tried to immunize lambs against coenurosis.

In the studies of immunobiology of illnesses caused by nematoda, ascariasis occupies the first place (Leykina, 1947, 1948b; Brudnaya, 1953; Babadzhanyan, 1947a and b).

The question of immunity in trichocephaliasis has been investigated by Shikhobalova (1949a and b) in experiments with white mice using Trichocephalus

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muris. Since immunity can be acquired only against worms which migrate in the host at an early stage, the experiments were negative.

Other experiments have been made in pulmonary worm infestation of small ruminants (Cystocaulus nigrescens and Dictyocaulus filario). Immunology related to these was investigated by Davtyan and Panosyan (1946), Davtyan and Shults (1949a) and Davtyan (1949b). Contributions have been made to the old problem of immunity against trichinosis by Shikhobalova and Prasolova (1952), Shikhobalova (1952, 1953), and Lemishko (1951).

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III. Pathology

Little attention has been paid to the pathology of helminthiasis. Only a relatively few works are available in this field. General pathomorphological questions of helminthology were treated by Aleksandrov (1946) and Vsevolodov (1947, 1948a). Some lesser works deal with oncocerciasis (Yevranova, 1948; Gnedina 1948a; Krasnoperov 1947). Of interest are some larger works on echinococci by the veterinary institute at Kharkov. Nosik and Pustovar (1952) studied the reaction of the host in echinococcosis and the modifications of the echinococcus cyst.

Their research led them to the following conclusions:

1. As a consequence of the reaction of the invaded tissue of the host, a primarily fibrillary capsule is formed around the parasitic cyst (= Echinococcus veterinarum).

2. In an increase in the reaction of the host, discernible from the accumulation of round cells (histiocytes and polyblasts) in the host tissue, the parasite reciprocates with a protective reaction consisting of the production of endogenous daughter cysts (= Echinococcus hominis).

3. If the reaction of the tissue is too strong, the parasite loses its ability to develop and forms no more embryos, but is capable of continuing its growth (= Echinococcus cysticus sterilis).

4. The formation of exogenous cysts in the early stage of cyst development leads to Echinococcus alveolaris, considered to be the larval form of Echinococcus granulosus.

5. The lack of embryonic scolices in Echinococcus cysticus sterilis and Echinococcus alveolaris permits the conclusion that these modifications are nontypical pathological forms of the parasite.

Only Nosik (1952d) has described at full length the problem of the formation of Echinococcus alveolaris. In two earlier works (Nosik, 1949a

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and b) he treated the manner of origin of echinococci. Of interest is the distribution of echinococci detected in the various families of domestic animals (communicated in the later work):

cattle: Echinococcus veterinarum 6.3 percent, Echinococcus hominis 0.3 percent, Echinococcus cysticus sterilis 91.2 percent, Echinococcus alveolaris 0.7 percent.
 sheep: Echinococcus veterinarum 95.66 percent, Echinococcus hominis 0.3 percent, Echinococcus cysticus sterilis 4 percent, Echinococcus alveolaris 0.04 percent.
 pigs: Echinococcus veterinarum 99 percent, Echinococcus hominis 0.3 percent, Echinococcus cysticus sterilis 0.7 percent.

A lesser work by Borisov (1948) treats the pathological-anatomical and pathological-histological picture of the intestine of beavers attacked by the trematode Stichorchis subtriquetrus. Drascheiasis of the intestine of the horse is described by Gorshkov (1953). Kasimov (1946c) examined the histopathology of trichostrongyliasis of sheep. Kleynbok (1949) examined the pathomorphology of the pancreas attacked by Eurytrema. The serious disease of sheep in Armenia, caused by Fasciola gigantica has been studied by Davtyan (1953). In a work by Kolesnikov (1953) there are communications on the pathological changes in the zebu affected by Ornithobilharzia turkestanica. Pigs infected with strongyloides (Strongyloidea ransomi) were examined by Skalinskiy (1953). In their stomachs he detected a catarrhal inflammation which sometimes degenerated into a fibrinous inflammation; a serious and desquamative catarrh was found in the small intestine; the parenchymatous organs were also affected (especially pneumonia, bronchitis). Changes in sheep and female goats infected with small pulmonary worms were studied by Vsevolodov and Boev (1948) and by Naletov (1952). Other works

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are by Tiunov (1953), (pathological anatomy and histology of the large intestine of horses infected with Trichonema); Vsevolodov (1950), (pathomorphology of the parasitic diseases of the rock partridge, Alectoris graeca); Vsevolodov (1953), (pathomorphology of intestinal worms in muskrats).

The pathological histology of crassicaudiasis has been investigated by Vsevolodov (1948b). He examined kidney material collected in the course of the 60th Helminthological Union Expedition to the Far East in 1928. The parasite, Crassicauda giliakiana, infects the kidney of the white whale (Delphinoptera leucos), and was described by Skryabin and Andreeva as early as 1934.*

Finally we must mention a work by Z. G. Popova (1953) who carried out pathological-morphological investigations of the proventriculus of ducks infected with tetramerosis.

* As the work by Vsevolodov (1948b) does not contain the bibliography of the original description of the parasite, we give it here: Skryabin, K. I. and Andreeva, N. K.: Un nouveau nematode: Crassicauda giliakiana n. sp. trouve' dans les reins de Delphinoptera leucos. Ann. paras. 12. 1934. 15-28.

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IV. Epidemiology

In two works, Alf deals with sanitary helminthological problems in connection with the cleansing of dwellings without canalization (1948) and with the construction of ponds and dams (1953). Barchenko (1953) studied the occurrence of ova of geohelminths* on vegetables, fruits and berries and their processed products (jam, preserves). To protect the population against a possible infection by geohelminths, he suggests the destruction of these ova by ultraviolet rays or high frequency ultra short waves. In her medical dissertation, Vasilkova (1949) speaks of the problem of cleaning sewage of worm ova. The destruction of worm ova (oxyurids, ascarids, hymenolepids) has been treated by Miretskiy (1953). Of interest also are two essays on the destruction of nematodes by predatory fungi in the soil (Soprunkov, 1947; Soprunkov and Soprunkova, 1953). Other communications of a more general type are from Boev (1946b) (methodology of the composition of helminthoepizootic maps); Levashov (1950) (helminths as components of the biosphere); Gerbilskiy (1946) (cooperation of worm invasions and infections) and Shults and Davtyan (1952) (cases of latent helminthiasis and their epizootic importance). The contributions of some veterinarians should also be mentioned: Antipin (1948a) wrote of pasture prophylaxis in helminthiasis of agriculturally useful animals; Shults and Boev (1948) wrote of the postimaginal deliverance from worms.

Before closing these general remarks on epidemiology and prophylaxis, some words may be said on the subject of "devastation." This technical term, used in Russian helminthological literature since 1945, embraces a complex

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of measures aiming at the systematic destruction of worms in all stages of their biological development. The antihelminthic measures employed so far were ineffective since they were only of a defensive nature: curing the sick and trying to protect man and animals against an infection. In contrast to this theory, the new trend is to completely and methodically destroy the helminths in all their phases of life. The hope is, thereby, to exterminate taeniasis, echinococcosis and ancylostomiasis in the Soviet Union. How far this can be carried out in such a vast and partially unexplored country as the Soviet Union remains to be seen. Literature on this subject is found in Skryabin (1950a) and I. V. Orlov (1950).

Problems of the epidemiology of ascariasis have been treated by Vasilkova and Gefter (1953), Pravdina (1948), and Pod-Yapol'skaya (1953). Gefter (1952) examined the role of water tanks in the spreading of ascariasis. Alf (1950) tried to free the soil from ova of ascarids by means of accumulated solar rays. Cases of ascariasis in domestic animals have been described by Krotov (1947, 1948a) (pig), Badanin (1950) (horse) and Feoktistov (1950, 1951) (poultry).

Shulman, Aberman and Kalning (1946), Geller (1946b), and Rybaltovskiy (1949) have published on oxyuriasis.

Of interest is the investigation of hookworm disease by Kamalov (1946). He studied the role of the pig in the epidemiology of this disease in Georgia. He found that pigs could not be infected with the Necator from man either perorally or percutaneously, but that they may serve as passive collectors of hookworm larvae from the soil (temporary parasitism). The author concludes that the Necator specimens of pig and man, despite their morphological resemblance, differ from each other. Another essay, Smirnov and Kamalov (1949), deals with the inoculation of the causative agents of hemorrhagic septicemia through cutaneous infection with larvae of the Ancylostoma. Various publications are devoted to helminthiasis of fur-bearing animals: Petrov (1950c,

* Geohelminths are parasitic nematodes in man and animals in which the development is direct, without an intermediate host (Ascaridae, Trichuris, oxyurids, hookworm, Trichostrongylus).

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1953), Petrov and Dubnitskiy (1948, 1948b), Skarbilovich (1950a), and I. V. Orlov (1948e, 1948f). Invasion of the horse by *Strongyloides* is described by Pukhov, Velichkin and Krivoshta (1948), Ershov (1946), Demidov (1951), and Maslov and Chebotarev (1948).

To be mentioned are also essays on helminthiasis of sheep by Badanin (1949) and Shkodin (1951).

Much attention has been paid to epizootic problems in connection with diseases caused by pulmonary worms. Kopyrin, Dobrikov and Bubrikova (1953) studied Muelleriosis of sheep; Kharichkova (1946a, 1950), Gilbert (1946), Kadenets'y (1947), Krastin and Ivashkin (1949), and Takhistov (1947) investigated dictyocaulosis of cattle; Borovkova (1948) that of horses.

The possibilities of transmission of trichinosis have been investigated by Koryazhnov (1946b) and Lukashenko (1953). Furthermore, there are the reports of trichinosis of the polar bear by Koryazhnov (1946a) and the badger (Semenova 1947). Lemishko (1947a) reported the technique of investigation of meat infected with non-encapsulated larvae of *Trichinellae*.

To be mentioned is also an essay on the thelazirosis of cattle (Klesov, 1953).

The epizootiology of *Acanthocephalus* has been treated in essays by Shcherbovich (1948b) and Petrochenko (1950a).

Of the diseases caused by *Cestoda*, diphyllobothriasis should first be mentioned. Its epidemiology in the district of Lake Balkhash was investigated by Zakharov (1946). Other treatises on cestodiasis have been supplied by Vavilova (1946) (hymenolepiasis of man), Pod-Yapol'skaya (1946, 1948b, 1948c), Kamolova (1949) (taeniarhynchosis of man), Nosil (1952a) (echinococcus of domestic animals), Potekhina (1951) and Shal'dybina (1953) (monieziosis of ruminants). Finally, attention may be drawn to an essay by Panova (1948) on the span of *Fasciola* in the liver of sheep.

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V. Systematics

Here, we should like to mention first some of the larger reference books, all of which have appeared under the editorship of Skryabin. Of particular importance is the work *Trematoda of Animals and Man; Elements of Trematodology*, of which 17 volumes are planned. In order to give an idea of the sections published between 1947 and 1953, a short summary of the contents of Vols. 1 - 8 is given here. For the sake of completeness we shall mention also those families of *Trematoda* which play a role as parasites only in fish, amphibious animals or reptiles.

Volume One (1947b) contains a chapter on general tremadology and describes the following families: *Atractotrematidae*, Yamaguti 1939, *Bivesiculidae*, Yamaguti 1938, *Cathaemasiidae*, Fuhrmann 1928, *Clinostomatidae*, Luehe 1901, *Collyriclidiae*, Ward 1917, *Eucotylidae*, Skryabin 1924, *Megaperidae*, Manter 1934, *Mesotretidae*, Poche 1925, *Notoporidae*, Yamaguti 1937, *Ommatobrachidae*, Poche 1925, *Opisthognathoporidae*, Yamaguti 1937, *Orchipedidae*, Skryabin 1925, *Philophthalmidae*, Travassos 1918, *Psilosomatidae*, Odhner 1913, *Renicolidae*, Dollfus 1939, *Sphincterostomatidae*, Yamaguti 1937, *Stomylotrematidae*, Poche 1925, *Waretrematidae*, Srivastava 1939. The family *Echinostromatidae*, Dietz 1909, has been treated in several contributions: Bashkirova (1947), Skryabin, Petrov and Bashkirova (1947), Skryabin (1947c).

Volume Two (1948a) contains the superfamily *Fascioloidae*, Stiles & Goldberger 1910 (consisting of the families *Fasciolidae* by Railliet 1895 and *Camphilidae* by Odhner 1926) and the following families: *Brachylaemidae*, *Compulidae* by Odhner 1926, *Rhopaliidae*, Looss 1899, *Rhytidodidae*, Odhner 1926, *Stiles and Hassall 1898*, *Sphaerostomatidae*, Thapar and Dayal 1934, and *Lecithodendriidae*, Odhner 1911, the latter also described by Skarbilovich 1947.

Volume Three (1949b) contains the subdivision *Paramphistomata* (Szidat 1936) Skryabin and Shultz 1937, consisting of the families: *Paramphistomatidae*,

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Fischcoeder 1901, Gastrothylacidae, Stiles and Goldberger 1910, Ciadorchidae, Southwell and Kirshner 1937, Diplodiscidae, Skryabin 1949, Brumptidae, Skryabin 1949, Gastropodidae, Stiles and Goldberger 1910, Stephanopharyngidae, Skryabin 1949, Microscaphidiidae, Travassos 1922, Gylaucheniidae, Ozaki 1933 and Metacetabulidae, Freitas and Lent 1938.

Volume Four (1950b) contains the families Cephalognomidae, Nicoll 1914, Lissorchidae, Poche 1925, and Urotrematidae, Poche 1925. Skryabin and Petrov (1950) describe the superfamily Opisthorchoidea, Faust 1929 (family Opisthorchidae Braun 1901, Pachytrematidae Baer 1943, Ratziidae Baer 1943) and Bashkirova (1950) and the family Cyclocoeliidae Kossack 1911.

Volume Five (1951) contains the subdivision Schistosomatidae Skryabin and Shultz 1937 (family Spirorchidae, Stunkard 1921, Sanguinicollidae, Graff 1907, Schistosomatidae, Looss 1899).

Volume Six (1952b) contains the subclass Aspidogastrea, Faust and Tang 1936 (family Aspidogastridae, Poche 1907, Stichocotylidae, Faust & Tang 1936) and articles by Morozov (1952b) on the superfamily Heterophyoidea, Faust 1929 (family Heterophyidae, Oehmer 1914, Galactosomatidae, Morozov 1950, Cryptogonimidae, Ciurea 1933) and by Belopolskaya (1952b), who described the family Microphallidae, Travassos 1920.

Volume Seven (1952c) contains the families Cephaloporidae, Travassos 1934, and Mondhelmidae (Dollfus 1937), Srivastava 1939; furthermore the Dicrocoeliidae, Oehmer 1911, examined by Skryabin and Yevranova (1952) and the first part of the chapter on the family Gorgoderidae, Looss 1901 by Pigulevskiy (1952).

Volume Eight (1953) contains the Trematoda of the subdivision Notocotylata Skryabin and Shultz 1933, and the second part of the chapter on the Gorgoderidae, Looss 1901, by Pigulevskiy (1953).

The first volume of Elements of Cestodology described the Anoplocephalata of domestic and wild animals (Spasskiy, 1951a).

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Several compilations are devoted to parasitic nematodes. Skryabin and Shikhobalova examined the filariae of animals and of man (1948a) and the oxyurids (1949a).

The series Elements of Nematology contained Volume One (syngamids of the domestic and wild animals, by Ryzhikov, 1949a) and Volume Two (ascarids of animals and man, by Mozgovoy, 1953b, two parts).

In the series Key to Parasitic Nematodes there appeared three volumes during the period under consideration. In the first volume Skryabin, Shikhobalova and Sobolev (1949) describe the Spirurata and Filarata; the second volume contains the oxyurids and the ascarids (Skryabin, Shikhobalova and Mozgovoy, 1951), and the third volume the Strongylata, described by Skryabin, Shikhobalova, Shultz, Popov, Boev and Delyamure (1952).

A great number of shorter articles in periodicals also dealt with the systematics of parasitic worms.

Trematodes: Morozov (1950, 1952a) described the various Heterophyidae; Gushanskaya (1952b) detected a new subfamily Gynaecotylinae of the family Microphallidae, Gubanov (1953), in the trematodes of fish-eating seabirds, created a new subfamily Liliatrematinae (family Allocreadiidae). Bykhovskaya-Pavlovskaya and Zhukov (1953) investigated the systematics of the classes Apharyngostrigidae, Ciurea 1927, and Parastrigidae, Szidat 1928 (family Strigeidae). The systematics of the class Leucocloridium, Carus 1835, according to morphological characteristics, was investigated by Bykhovskaya-Pavlovskaya 1951. The works of Ginetsinskaya 1947b and Bykhovskaya-Pavlovskaya 1949 are devoted to the family Cyclocoeliidae.

Cestodes: Bondareva, 1953, deals wit' the question of independent existence of various classes of Multiceps. Matevosyan (1950c) analysed the systematic position of some representatives of the family Paruterinidae.

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In another work (Matevosyan, 1953) he subdivided the Dilepididae into the following families: I) Dilepididae (Fuhrmann 1901) nov. comb.; II) Dipyliidae nov. fam.; III) Choanotaeniidae nov. fam.

The systematic grouping of the class Echinorhynchotaenia, Fuhrmann 1909, was dealt with by Spasskiy (1947a). In another publication (Spasskiy, 1948a) he created a new family of cestodes, called Skryabinochoridae. A summary of the Hymenolepididae of mammals has been given by Skryabin and Matevosyan (1948) in a detailed work, in which they speak for the first time of the new classes Cryptocotylepis and Pseudodiorchis. Other contributions to the systematics of the family Hymenolepididae are from Spasskiy (1950b, 1950g, 1952b, 1952c). Finally some articles permitting a better knowledge of the Anoplocephalata may be mentioned. Spasskiy (1950c, 1950d) deals with the general systematics of this group. A reorganization of the species Cittotaenia, Riehm 1881, has been carried out by Spasskiy 1951b. He transferred some species of Cittotaenia (Cittotaenia marmotae, Cittotaenia pectinata and Cittotaenia perplexa) to a new species called Mosgovoyia gen. nov. Other works dealing with Cittotaenia species are by Kirshenblat (1947) and Spasskiy (1949c). The species Catenotaenia Yanitskiy 1904 has been described by Akhunyan (1946) and Spasskiy (1950). Furthermore a new family of Catenotaeniidae has been recognized (Spasskiy, 1950a).

Nematodes: A great number of publications have been devoted to the systematics of the nematodes. Skarbilovich (1947) attempted a classification of the family Anguillulidae, Baylis and Daubney 1926. Demshin (1953) occupied himself with the morphology of the Trichonematinae; Shults and Andreeva (1953) studied the problems relating to the anatomic construction of Trichostrongylus (Boev and Shults, 1950; Shults and Andreeva, 1951;

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Boev, 1950; Shults, Kadenatsiy and Andreeva, 1949). Other authors described the relationship and the morphology of the agents of the pulmonary worm disease of different animals (Shults and Kadenatsiy, 1948, 1949; Boev and Murzina, 1948b). In 1948, Ryzhikov presented an introduction to the systematic organization of the family Syngamidae. The superfamily Metastrongyloidea has been treated by Shults, 1945a. The subdivision Oryurata and some of its families has been described by Skryabin, 1948b and Skryabin and Shikhobalova, 1950, 1951. Questions relating to the evolution and phylogeny of the Ascaridata have been treated by Mozgovoy, 1953a. The systematic organization of the family Subuluridae has been studied by Skryabin and Shikhobalova, 1948b. A bibliography on the independence of the species Ascaris ovis Rudolphi 1819 has been given by Mozgovoy and Nosik, 1951, when a specimen of this parasite was found on Saiga tatarica i.e. the zoological garden at Kharkov.

Specimens of Anisakoidae have been treated in two contributions by Mozgovoy (1949a, 1951). The systematics of the camallanates has been treated by Sobolev 1952b. The spirurates have been reclassified in their quality as parasites on birds by Skryabin, 1946b. Special problems in connection with this group have been studied by Gushanskaya, 1950d, 1951b, and Gushanskaya and Krotov, 1952. In 1953, after the detection of Pygarginema cervi nov. sp. in the Sika deer, Lyubimov transferred this class from the family Thelaziidae to the family Spiruridae. The position of the family Desmidocercidae, Cram 1927, within the system of the Filiariata was treated by Gushanskaya 1953. The problem of the relationship of the classes of Trichuris in pigs and in men was characterized by Sondak 1948 and by Pavlovskiy and Sondak 1951. Finally, a contribution by Spasskiy and Romanova 1952 gives a characterization of the family Soboliphymidae (Dioctophymata).

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Acanthocephala: Petrochenko, 1950b, was the author of a systematic study of the genus Polymorphus. He divided the Polymorphus types into two new subgenera: Polymorphus and Hexaglandula. Since treatment of the Acanthocephala systematics is rather infrequently found, his division is repeated here:

1. Subgenus Polymorphus:

- P. minutus (GOEZE 1782)
- P. actuganensis PETROCHENKO 1940^b
- P. acutis VAN CLEAVE & STARRETT 1940
- P. arcticus (VAN CLEAVE 1920)
- P. botulus (VAN CLEAVE 1916)
- P. capella YAMAGUTI 1935
- P. contortus (BRENSER 1821)
- P. corynoides SKRYABIN 1913
- P. crassus VAN CLEAVE 1924
- P. cucullatus VAN CLEAVE & STARRETT 1940
- P. erolie YAMAGUTI 1939
- P. kostylewi PETROCHENKO 1949b
- P. magnus SKRYABIN 1913
- P. marchii (PORTA 1910)
- P. marilis VAN CLEAVE 1939
- P. mathevossianae PETROCHENKO 1949b
- P. miniatus (LINSTOW 1896)
- P. obtusus VAN CLEAVE 1918
- P. phippi KOSTYLEV 1922
- P. striatus (GOEZE 1782)
- P. trochus VAN CLEAVE 1945

2. Subgenus Hexaglandula:

- P. mutabilis (RUDOLPHI 1819) TRAVASSOS 1926
- P. corynosoma TRAVASSOS 1915
- P. inermis TRAVASSOS 1923
- P. pauchimatus HEINZE 1936

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Classes of Parasitic Worms in Mammals and Birds
Newly Described by Soviet Authors during the Period 1946 to 1953

This list contains references which can be checked, but is in no way complete. Several descriptions, especially class-names, have been distorted through printing failure or because of ignorance of Latin grammar; however, they are taken in the form given on the grounds of priority. Examples of these are Tetramerurus grusi (!) Shumakovitch 1946, Brachylecithum lobatum strixi (!) Oshmarin 1952, mentioned in Skryabin and Yevranova 1952, and Brachylecithum coturnixi (!) Oshmarin 1952, also mentioned in Skryabin and Yevranova 1952.

Trematodes

- Allopyge skrjabini SHAKHTAKHTINSKAYA 1951b
(*Grus grus*)
- Apharyngostrigea intermedia (TUBANGUI 1932) BYKHOVSKAYA-PAVLOVSKAYA & ZHUKOV 1953
- (*Circus aeruginosus*)
- Apharyngostrigea parastrigiformis BYKHOVSKAYA-PAVLOVSKAYA & ZHUKOV 1953
- (*Hypothriorchis subbuteo*)
- Brachydistomum salebrosum luscini OSHMARIN 1952, in SKRYABIN & YEVRAKOVA 1952
(*Luscinia callipe*)
- Brachylaemus oesophagei SHALDYBIN 1953
(*Sorex araneus*, *S. minutus*, *Neomys fodiens*)
- Brachylecithum attenuatum parimum OSHMARIN 1952, in SKRYABIN & YEVRAKOVA 1952
(*Parus palustris*)
- Brachylecithum burjatmongolicum OSHMARIN 1947
(*Tetrastes bonasia*)
- Brachylecithum capillarium OSHMARIN 1952, in SKRYABIN & YEVRAKOVA 1952
(*Turdus dauma*)
- Brachylecithum coturnixi OSHMARIN 1952, in SKRYABIN & YEVRAKOVA 1952
(*Coturnix coturnix*)
- Brachylecithum cuculi OSHMARIN 1952, in SKRYABIN & YEVRAKOVA 1952
(*Cuculus canorus*)
- Brachylecithum eugenia OSHMARIN 1947
(*Nucifraga caryocatactes*)
- Brachylecithum kirghisensis YEVRAKOVA 1952, in SKRYABIN & YEVRAKOVA 1952
(*Montifringilla alpicola prosvirovi*)
- Brachylecithum lobatum strixi OSHMARIN 1952, in SKRYABIN & YEVRAKOVA 1952
(*Strix uralensis*)
- Brachylecithum pici OSHMARIN 1952, in SKRYABIN & YEVRAKOVA 1952
(*Picus canus*)
- Brachylecithum platynosoides POTEKHINA 1948*
(*Parus cyanus tianschanicus*, *P. major ferghanensis*)
- Brachylecithum praetenuis OSHMARIN 1952, in SKRYABIN & YEVRAKOVA 1952
(*Apus pacificus*)
- Brachylecithum uigurica YEVRAKOVA 1952, in SKRYABIN & YEVRAKOVA 1952
(*Eremophila penicillata albigua*)

*Brachylecithum platynosoides POTEKHINA 1948 was transferred by SKRYABIN & YEVRAKOVA 1952 to the Genus Lyperosomum.

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Castroia nyctali GVOZDEV 1953
 (Nyctalus noctua)
 Corrigia bonasis OLIGER 1950, in SKRYABIN & YEVANNOVA 1952
 (Tetrastes bonasia)
 Corrigia separatrix OSHMARIN 1952, in SKRYABIN & YEVANNOVA 1952
 (Actitis hypoleucos)
 Corrigia skrjabini KASIMOV 1948
 (Tetracallus caucasicus)
 Corrigia victori GUSHANSKAYA 1952a
 (Coturnix coturnix)
 Cyathocotylus fulicae GINETSKAYA 1952
 (Fulica atra)
 Diacetabulum curvicolon BELOPOLSKAYA 1952a
 (Tringa incana brevipes)
 Dicrocoelium lanceatum scirui ARTYUKH 1952, in SKRYABIN & YEVANNOVA 1952
 (Sciurus vulgaris)
 Dicrocoelium moschiferi OSHMARIN 1952, in SKRYABIN & YEVANNOVA 1952
 (Moschus moschiferus)
 Dicrocoelium orientalis SUDANIKOV & RYZHIKOV 1951a
 (Moschus moschiferus)
 Dicrocoelium petrovi KASIMOV 1952, in SKRYABIN & YEVANNOVA 1952
 (Alectoris graeca caucasica)
 Diplostomum kronschnepi BYKHOVSKAYA-PAVLOVSKAYA 1953a
 (Numenius arquata)
 Echinocasmus columbi OSHMARIN 1950a
 (Colymbus grisea)
 Echinocasmus skrjabini OSHMARIN 1947, in SKRYABIN 1947c
 (Colymbus stellatus)
 Echinoparyphium macrovitellatum OSHMARIN 1947, in SKRYABIN 1947c
 (Phalacrocorax carbo)
 Echinoparyphium paracinctum BYKHOVSKAYA-PAVLOVSKAYA 1953a
 (Nyroca ferina)
 Echinoparyphium petrovi NEVOSTRUEVA 1953a
 (Gallus domesticus, Anas boschas domestica, Anser anser domesticus)
 Echinostoma grandis BASHKIROVA 1946
 (Fulica atra)
 Echinostoma stromi BASHKIROVA 1946
 (Netta rufina)
 Endocotyle incana BELOPOLSKAYA 1952a
 (Tringa incana brevipes)
 Eumegacetes komarovii SKRYABIN 1948a
 (Chelidon urbica)
 Leucochloridium phragmitophila BYKHOVSKAYA-PAVLOVSKAYA & DUBININA 1951
 (Motacilla alba, M. citreola, M. flava beema)
 Leucochloridium skrjabini SHALDYBIN 1953
 (Sorex araneus, S. minutus, Neomys fodiens)
 Leucochloridium wittenbergi SKRYABIN 1948a*
 (Muscicapa grisola)

*syn. Leucochloridium sp. WITENBERG 1925

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Leyogonimus testilobatus BYKHOVSKAYA-I AVLOVSKAYA 1953b
 (Garrulus glandarius)
 Liliatrema skrjabini GUBANOV 1953
 (Phalacrocorax urile, Ph. pelagicus, Cephus carbo,
 Larus argentatus)
 Liliatrema sobolevi GUBANOV 1953
 (Phalacrocorax urile, Ph. pelagicus)
 Longicollia echinata BYKHOVSKAYA-PAVLOVSKAYA 1953a
 (Cepolla gallinago)
 Lutztrema sturni SKRYABIN & YEVANNOVA 1952
 (Sturnus vulgaris)
 Lyperosomum amurensis SHCHERBOVICH 1946
 (Lanius cristatus)
 Lyperosomum mosquensis cineili OSHMARIN 1952, in SKRYABIN & YEVANNOVA 1952
 (Circus pallasi)
 Lyperosomum petrovii KASIMOV 1952, in SKRYABIN & YEVANNOVA 1952
 (Francolinus francolinus)
 Lyperosomum schikhobalovi KASIMOV 1952, in SKRYABIN & YEVANNOVA 1952
 (Alectoris graeca caucasica)
 Maritrema afanassjewi BELOPOLSKAYA 1952b
 (Alopex lagopus beringensis)
 Maritrema magnirostris BELOPOLSKAYA 1952b
 (Upupa epops)
 Mesostephanus skwzorovi PETROV 1950a
 (Felis catus domesticus)
 Notocotylus skrjabini ABLASOV 1953
 (Anas platyrhynchos)
 Numeniotrema musculosa BELOPOLSKAYA 1952b
 (Numenius phaeopus variegatus)
 Opisthioglyphe oschmarini SHALDYBIN 1953
 (Neomys fodiens)
 Opisthioglyphe sobolevi SHALDYBIN 1953
 (Sorex araneus, S. minutus)
 Orchipedium conjunctum SHTROM 1947, in SKRYABIN 1947b
 (Ciconia ciconia asiatica)
 Ornithodendrum imanensis OSHMARIN & DOTSENKO (1950) 1951b
 (Gallus gallus domesticus, Corvus corone corone, Oriolus sinensis)
 Oschmarinella sobolevi SKRYABIN 1947a
 (Hyperoodon rostratus)
 Pachytrema compositum SHCHERBOVICH 1946
 (Stern longipennis)
 Pancratremia disacetabulum OSHMARIN 1952, in SKRYABIN & YEVANNOVA 1952
 (Eurystomus orientalis)
 Paralecithodendrum skrjabini SHALDYBIN 1948, in SKRYABIN 1948a
 (Vesperillo murinus)
 Parastrigea anatis BYKHOVSKAYA-PAVLOVSKAYA & ZHUKOV 1953*
 (Anas platyrhynchos)

*The original work contains no mention of the host. This can be learned, however, from information given by Bykovskaya-Pavlovskaya 1953a.

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Pegosomum skrjabini SHAKHTAKHTINSKAYA 1949
 (Ardea purpurea, Egretta alba)
 Petasiger aeratus OSHMARIN 1947, in SKRYABIN 1947c
 (Ardea cinerea)
 Petasiger spasskyi OSHMARIN 1947, in SKRYABIN 1947c
 (Ardea cinerea)
 Philopthalmus muraschkinzevi TRETYAKOVA 1946, in SKRYABIN 1947c
 (Anas boschas domestica)
 Plagiorchis morosovi SOBOLEV 1946
 (Tringa ochropus, Actitis hypoleucos)
 Plagiorchis oscineus SUDARIKOV 1950a
 (Acrocephalus schoenobenus)
 Plagiorchis petrovii FEDYUSHIN 1949a
 (Gallus gallus domesticus)
 Plagiorchis ptchelkini SOBOLEV 1946
 (Tringa ochropus)
 Praeorchitrea praeorchis OSHMARIN 1952, in SKRYABIN & YEVRAKOVA 1952
 (Capella gallinago)
 Proacetabulorhynchus dogielii BELOPOLSKAYA & BYKHOVSKAYA-PAVLOVSKAYA 1953
 (Numenius arquata lineatus, N. cyanopus)
 Pseudobilharziella tatiensis SPASSKAYA 1953
 (Rallus aquaticus)
 Pseudomaritrema postherolecithale BELOPOLSKAYA 1952b
 (Tringa incana brevipes)
 Psilotrema skrjabini GNEIDINA 1946
 (Nyroca rufa)
 Psilotrema castoris I. V. ORLOV 1946a
 (Castor fiber)
 Pycnoporus skarbilovichii SHALDYBIN 1948, in SKRYABIN 1948a
 (Vespertilio murinus)
 Pycnoporus treljudovi SHALDYBIN 1948, in SKRYABIN 1948a
 (Vespertilio murinus)
 Renicola magnicaudata BYKHOVSKAYA-PAVLOVSKAYA 1950
 (Hirundo rustica)
 Renicola mediavitellata BYKHOVSKAYA-PAVLOVSKAYA 1950
 (Nyroca ferina, Anas strepera, Spatula clypeata)
 Renicola nana BYKHOVSKAYA-PAVLOVSKAYA 1953a
 (Tringa totanus)
 Renicola pandionii SUDARIKOV 1947, in SKRYABIN 1947b
 (Pandion haliaetus)
 Renicola undecima SUDARIKOV 1947, in SKRYABIN 1947b
 (Pandion haliaetus)
 Renicola vladicei OSHMARIN 1950a
 (Phalacrocorax pelagicus)
 Skrjabinomerus petrovii SAVINOV 1951
 (Talpa europaea)
 Skrjabinovernis vesiculata BELOPOLSKAYA 1953b
 (Arenaria interpres)
 Skrjabinomus lanciformis OSHMARIN 1952, in SKRYABIN & YEVRAKOVA 1952
 (Falco subbuteo)
 Skrjabinomus popovi KASIMOV 1952b
 (Tetraogallus caucasicus)

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Sobolephya oshmarini MOROZOV 1952b
 (Larus sp.)
 Sobolevistoma graciosa SUDARIKOV 1950a
 (Pandion haliaetus)
 Spelotrema oedemia BELOPOLSKAYA 1952b
 (Oedemia fusca deglandi)
 Spiculotrema litoralis BELOPOLSKAYA 1949b
 (Tringa incana, Arenaria interpres, Calidris alpina,
 C. ruficollis)
 Stomylotrema spaskii SOBOLEV 1946
 (Capella gallinago)
 Tanaisia longivittellata SITTRON 1947, in SKRYABIN 1947b
 (Porzana bailloni)
 Tetracladum sternae KULACHKOVA 1950
 (Sterna hirundo)
 Tristriata anatis BELOPOLSKAYA 1953, in SKRYABIN 1953
 (Clangula clangula, Cl. histrio)
 Unilaterilecithum beloussi OSHMARIN 1952, in SKRYABIN & YEVRAKOVA 1952
 (Pericrocotus roseus)

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Cestodes

No further details can be added here to the material produced by Spasskiy in his Anoplocephalata Monograph. Study of the original work is recommended for all questions which deal with these cestode groups.

Anomotaenia arkita MATEVOSYAN 1950a
 (Corvus corone orientalis)
 Anomotaenia hydrochelidonis DUBININA 1953a
 (Larus minutus, Hydrochelidon leucaptera)
 Anomotaenia paramicrorhyncha DUBININA 1953a
 (Tringa glareola, T. nebularia, T. stagnatilis, T. totanus)
 Anomotaenia riparia DUBININA 1953a
 (Riparia riparia)
 Aploparaksis endacantha DUBININA 1953a
 (Anas acuta)
 Aploparaksis octacantha SPASSKAYA 1950
 (Calidris temminckii)
 Aploparaksis pseudofurcigera MATEVOSYAN 1946a
 (Anas platyrhynchos)
 Aploparaksis sachalinensis KROTOV 1952a
 (Capella solitaria japonica)
 Aploparaksis skrjabinissima SPASSKAYA 1950
 (Tringa glareola)
 Aploparaksis sobolevi OSHMARIN & MOROZOV 1948
 (Capella gallinago)
 Biuterina sobolevi SUDARIKOV 1950b
 (Saxicola rubetra)
 Catenotaenia cricetorum KIRSHENBLAT 1949
 (Mesocricetus auratus brandti)
 Choanotaenia tugarinovi DUBININA 1950c
 (Saxicola torquata)
 Diagonaliporus schikli obalovce KROTOV 1951b
 (Scolopax rusticola)
 Diagonaliporus skrjabinii KROTOV 1951b
 (Capella solitaria japonica)
 Diagonaliporus spasskyl KROTOV 1951b
 (Clangula hyemalis)
 Dicranotaenia andrejewoi MATEVOSYAN 1946a
 (Oidemia fusca)
 Dicranotaenia bisacculata KROTOV 1949
 (Nyroca ferina)
 Dicranotaenia coronula micracantha MATEVOSYAN 1946a
 (Anas platyrhynchos, A. platyrhyncha domestica, Nyroca fuligula,
 N. marila, Mareca penelope)
 Dicranotaenia crimensis SKARBILOVICH 1946
 (Myotis myotis oxygnathus)
 Dicranotaenia guschaneskoi KROTOV 1952a
 (Calidris minuta)
 Dicranotaenia kutassi MATEVOSYAN 1946a
 (Nyroca marila)

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Dicranotaenia pseudocoronula MATEVOSYAN 1946a
 (Anas platyrhyncha domestica, Nyroca fuligula, Oidemia fusca)
 Dicranotaenia skrjabinissima KROTOV 1952a
 (Calidris subminuta)
 Dicranotaenia spasskii SUDARIKOV 1950b
 (Coracias garrulus)
 Dicranotaenia sydriensis SKARBILOVICH 1946
 (Pipistrellus pipistrellus bactrianus)
 Dilepis glareola DUBININA 1953a
 (Tringa glareola)
 Diorchis abuladze KHOLOV 1949
 (Anas clypeata)
 Diorchis mathevossianae KROTOV 1949
 (Nyroca ferina, Clangula clangula)
 Diorchis oschmarini SUDARIKOV 1950b
 (Fulica atra)
 Diorchis parvogenitalis MATEVOSYAN 1946a
 (Nyroca ferina, N. fuligula, Querquedula crecca)
 Diorchis sobolevi SPASSKAYA 1950
 (Fulica atra)
 Diorchis tringae DUBININA 1953a
 (Tringa totanus)
 Diorchis tshanevii KROTOV 1949
 (Anas strepera)
 Diorchis vigisi KROTOV 1949
 (Anas crecca)
 Drepanidotaenia fragmentata GVOZDEV 1948a
 (Lepus tibetanus)
 Drepanidotaenia spinulosa DUBININA 1953a
 (Nyroca ferina, N. fuligula)
 Echinocotyle clerici MATEVOSYAN & KROTOV 1949
 (Anas crecca)
 Echinocotyle skrjabini MATEVOSYAN & KROTOV 1949
 (Anas clypeata, A. crecca, A. formosa, A. strepera)
 Hymenolepis aleutii OSHMARIN 1950a
 (Larus argentatus)
 Hymenolepis cavoarmatus SUDARIKOV 1950b
 (Turdus pilaris)
 Hymenolepis formosa DUBININA 1953a
 (Nyroca ferina)
 Hymenolepis macrancanthissima OSHMARIN 1950a
 (Clangula histriostrica)
 Hymenolepis mathevossianae AKHUMYAN 1948a*
 (Mesocricetus auratus brandti)
 Hymenolepis praeputialis OSHMARIN 1950a
 (Mergus merganser)
 Hymenolepis quasioweni DUBININA 1953a
 (Tringa glareola, T. stagnatilis, Philomachus pugnax,
 Calidris temminckii)

*The original is unobtainable; a description is found in Skryabin and Matevosyan 1948; however, Akhumyan is mentioned there as the author. Unfortunately, the attached bibliography gives no works of Akhumyan for either 1946 or 1948.

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Hymenolepis semenovi SPASSKIY 1946
 (Erythrina erythrina)
 Hymenolepis skrjabini MATEVOSYAN 1946a
 (Nyroca ferina)
 Hymenolepis skrjabini AKHUMYAN 1947
 (Merioness persicus)
 Insinuarotaenia schikhobalovi SPASSKIY 1948b
 (Meles meles)
 Lateriporus aeconylus OSHMARIN 1950a
 (Clanula histrionica)
 Lateriporus skrjabini MATEVOSYAN 1946a
 (Nyroca marila)
 Mathevolepis petrotschenkoi SPASSKIY 1948c
 (Sorex sp.?)
 Mathevotaenia skrjabini SPASSKIY 1949b
 (Erinaceus (Hemicchinus) auritus)
 Multiuterina skrjabini MATEVOSYAN 1948
 (Oriolus oriolus turkestanicus)
 Paranoplocephala ryjikovi SPASSKIY 1950e
 (Marmota baibacina, Marmota sp.)
 Paroniella comparata polytestis SPASSKIY 1946
 (Oriolus oriolus)
 Paruterina kirghisica MATEVOSYAN 1950a
 (Sylvia curruca affinis)
 Paruterina skrjabini MATEVOSYAN 1950a
 (Coracias garrulus)
 Rhabdometra nigromaculata DURBININA 1950c
 (Phasianus colchicus bianchii)
 Schizorchis altaica GVOZDEV 1951
 (Ochotona alpina)
 Skrjabinoparaksis tatiana KROTOV 1949
 (Anas clypeata)
 Taenia skrjabini ROMANOV 1952
 (Martes zibellina)
 Vigisolepis barboscolei SPASSKIY 1949a
 (Sorex araneus, Sorex sp.)

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Nematodes

Alcefilaria abramovi OSHMARIN & BELOUS 1951
 (Alces alces)
 Amidostomum boschadis PETROV & FEDYUSHIN 1949
 (Anas boschas, Anas boschas domestica)
 Ancyracanthopis petrovi GUSHANSKAYA 1950c
 (Numenius phaeopus)
 Anenteronema skrjabini OSHMARIN 1949
 (Garrulus glandarius)
 Anisakis ivanitzkii MOZGOVOY 1949a
 (Physeter catodon)
 Anisakis schupakovi MOZGOVOY 1951, in MOZGOVOY 1953b, I & in SKRYABIN, SHIKHOBALOVA & MOZGOVOY 1951
 (Phoca caspica)
 Anisakis skrjabini MOZGOVOY 1949a
 (Physeter catodon)
 Apracta sudarikovi SOBOLEV 1947, in SKRYABIN & SHIKHOBALOVA 1948a
 (Charadrius dubius)
 Ascaridia skrjabini FEDYUSHIN 1952
 (Tetraogallus himalayensis)*
 Ascaris brevispiculata SADOVSKAYA 1952, in MOZGOVOY 1953b, I
 (Apodemus agrarius)
 Ascaris spalacis SHULIS & ALOYAN 1950, in MOZGOVOY 1953b, I
 (Spalax leucodon)
 Capillaria kutori RUKHLYADEVA 1946
 (Neomys fodiens)
 Capillaria megrellica RODONAYA 1947
 (Capre hircus)
 Capillaria petrovi RUKHLYADEVA 1946
 (Neomys fodiens)
 Capillaria wiletti RUKHLYADEVA 1950
 (Arvicola terrestris)
 Cardiophilaria skrjabini PETROV & CHERTKOVA 1947, in SKRYABIN & SHIKHOBALOVA 1948a
 (Hypotriorchis subbuteo)
 Cephaluris andrejevi SHULIS 1948e
 (Ochotona alpina)
 Chandlerella lienalis ORLOV 1947, in SKRYABIN & SHIKHOBALOVA 1948a
 (Caccabis chucar)
 Citellina alatau SPASSKIY, RYZHIKOV & SUDARIKOV 1950
 (Marmota menzbieri)
 Citellina schulzi KORNEEV 1951, in SKRYABIN, SHIKHOBALOVA & MOZGOVOY 1951
 (Marmota sibirica)
 Cloeascaris mosgovoyi OSHMARIN 1953, in MOZGOVOY 1953b, I
 (Lutra lutra)
 Contraeaeum circi OSHMARIN 1953, in MOZGOVOY 1953b, I
 (Circus cyaneus, Buteo buteo, B. lagopus)

*The original description in the (unobtainable) dissertation of N. P. Sadovskaya: Paraziticheskiye chervi gryzunov i nasekomoyadnykh Primorskogo Kraya (Parasite worms of the rodents and insectivora of the Far East Kraя) (Parasite worms of the rodents and insectivora of the Far East coastal region) 1952. (Institute which accepted the dissertation is not known.)

*The host is given as "Zemleroyka," i.e., a kind of shrew.

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Contraeaeum nehlji KAROKHIN 1949
 (Colymbus nigricollis)
 Contraeaeum oschmarini MOZGOVOY 1950
 (Uria lomvia)
 Contraeaeum spasskii MCZGOVOY 1950
 (Colymbus griseigena, C. nigricollis, C. ruficollis, C. auritus)
 Cyathostoma brodskii SULTANOV 1946, in RYZHIKOV 1949a
 (Circus aeruginosus)
 Cyrnea lyruuri FEDYUSHIN 1946a
 (Lyrurus tetrix, Lagopus lagopus, Tetrao urogallus, Tetrastes bonasia)
 Cystocaulus vsevolodovi BOEV 1948
 (Capra aegagrus)
 Cystofilaria balcanica SKRYABIN & SHIKHOBALOVA 1948a*
 (Canis familiaris)
 Desmidocerelle skrjabini GUSHAWSKAYA 1949, in SKRYABIN, SHIKHOBALOVA & SOBOLEV 1949
 (Phalacrocorax carbo, Ph. pygmeus)
 Dictyocaulus camelii BOEV 1952, in SHUMILINA 1953**
 (Camelus bactrianus)
 Diocophyme skrjabini BOGDASHOV 1951
 (Canis familiaris)
 Diplotriaena anisorema SPASSKAYA 1949
 (Turdus ericetorum)
 Diplotriaena schikhobalovi SPASSKAYA 1949
 (Anthus trivialis)
 Dispharynx mathevossianae PETROV & CHERTKOVA 1950b
 (Cercyneis tinunculus)
 Eugenuris schumakovitschi SHULTS 1948a
 (Ochotonida daurica)
 Halocercus kleinenbergi DELYAMURE 1951a
 (Delphinus delphis ponticus)
 Halocercus ponticus DELYAMURE 1946
 (Phocaena relicta)
 Helignosomum azerbaijanii S. S. SHAKHNAZAROVA 1949
 (Sylviaemus sylvaticus)
 Heterakis caudobrevis POPOVA 1949, in SKRYABIN & SHIKHOBALOVA 1949a
 (Gallus gallus domesticus)
 Heterakis kurilensis OSHMARIN 1950a
 (Aethia cristatella)
 Heterospiculum sobolevi SHIGIN 1951
 (Ardea cinerea)
 Korjakinema gusi OSHMARIN 1949, in SKRYABIN, SHIKHOBALOVA & SOBOLEV 1949
 and in OSHMARIN 1950a
 (Somateria mollissima)
 Lemdana corvicolia SHIKHOBALOVA 1948
 (Garrulus krinicky, Pica pica)

*Nomen novum for *Filaria* sp. Bimich, Kostich and Mlinats 1938.

**Original description in the (unobtainable) dissertation of Boev, S. N.: Legochnye nematody i nematodory zhivotnykh zhivotnykh Kazakkstana. Alma-Ata, Zootestinstitut, 1952, 607.

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Lemdana skrjabini KASIMOV 1952a
 (Francolinus orientalis caucasica)
 Missonema spongispiculata OSHMARIN 1950b
 (Asio otus)
 Longistriata elpatievskii S. S. SHAKHNAZAROVA 1949
 (Glis glis)
 Microtetramerus oriolus PETROV & CHERTKOVA 1950b
 (Oriolus oriolus turkestanicus)
 Nematodirella gazelli SOKOLOVA 1948a
 (Gazella subgutturosa)
 Nematodirus archari SOKOLOVA 1948b
 (Ovis ammon)
 Nematodirus dogielii SOKOLOVA 1948b
 (Capra sibirica, Gazella subgutturosa, Ovis ammon)
 Nematodirus gazellae SOKOLOVA 1948b
 (Gazella subgutturosa)
 Nematodirus sugatini SOKOLOVA 1948b
 (Capra sibirica)
 Neostrongylus zvetkovi BOEV 1949
 (Capra sibirica)
 Oesophagostomum cervi MERTS 1948
 (Cervus elephas)
 Ollulanus skrjabini BURDELEV 1950
 (Felis leo)
 Ornithofilaria rotundicephala OSHMARIN 1950b
 (Garrulus glandarius)
 Ostertagia aegagri GRIGORYAN 1951
 (Capra aegagrus)
 Ostertagia antipini MACHULSKIY 1950, in SKRYABIN, SHIKHOBALOVA, SHULTS, POPOV, BOEV & DELYAMURE 1952
 (Alces alces)
 Ostertagia bakuriani SHISHKIN 1946, in SKRYABIN, SHIKHOBALOVA, SHULTS, POPOV, BOEV & DELYAMURE 1952
 (Ovis aries)
 Ostertagia dagestanica ALTAEV 1952, in SKRYABIN, SHIKHOBALOVA, SHULTS, POPOV, BOEV & DELYAMURE 1952
 (Ovis aries)
 Ostertagia davtiani GRIGORYAN 1951
 (Capra aegagrus, Capreolus capreolus)
 Ostertagia muraschkinzevi SHULTS & KADENATSII 1950
 (Nemorhaedus goral)
 Ostertagia nemorhaedi SHULTS & KADENATSII 1950
 (Nemorhaedus goral)
 Ostertagia schikhobalovi ALTAEV 1953
 (Ovis aries)
 Parafilaria antipini RUKHLYADEV 1947
 (Cervus elephas)
 Pelecitus armenicus CHERTKOVA 1946, in SKRYABIN & SHIKHOBALOVA 1948a
 (Circus aeruginosus)
 Pentadentoptera skrjabini S. S. SHAKHNAZAROVA 1949
 (Sylvaeamus sylvaticus)

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Petroviprocta vigissi SHAKHNAZARINSKAYA 1951
(Nycticorax nycticorax)
 Petrospirura lynxi MACHULSKIY 1952
(Lynx lynx, Octocolabus manul)
 Pharyngosetaria butorides OSHMARIN & BELOUS 1951
(Butorides striatus)
 Physaloptera dogieli S. G. SHAKHNAZAROVA 1949
(Brythocurus caucasicus)
 Physaloptera vigissina AYUPOV 1951
(Gallus gallus domesticus)
 Physocephalus quadriplatus KIRSHENELAT 1949
(Mesocricetus auratus brandti)
 Placentonema gigantissima GUBANOV 1951
(Physeter catodon)
 Pneumocaulus kadenazii SHULTS & ANDREEVA 1948
(Muscus moschiferus)
 Porrocaecum flammel KAROKHIN 1946
(Asio flammeus)
 Porrocaecum pseudopressum KAROKHIN 1946
(Aesalon columbarius)
 Porrocecum skrjabiniensis MOZGOVOY 1949b
(Turdus merula, T. viscivorus)
 Porrocaecum skrjabini SULTANOV 1946, in SKRYABIN, SHIKHOBALOVA &
 MOZGOVOY 1951
(Aegypius monachus)
 Porrocaecum tameri MOZCOVY 1950
(Garrulus glandarius)
 Protostrongylus andrejevi SHULTS & KADENATSII 1950
(Memorhaedus goral)
 Protostrongylus tauricus SHULTS & KADENATSII 1949
(Iepus europaeus)
 Pseudaprocta siccotricha-silensis OSHMARIN & BELOUS 1951
(Orisca sinensis)
 Pygarginema skrjabini KADENATSII 1948
(Capreolus capreolus)
 Rictularia viniti MACHULSKIY & MAKAROV 1951
(Martes zibellina)
 Rinedia schulzi GRIGORYAN 1951
(Capre sibiricae)
 Setaria kabargi KADENATSII 1948
(Muscus moschiferus)
 Skrjabinobronema schikhobalovi GUSHANSKAYA 1950c
(Numenius phaeopus)
 Skrjabinocapillaria eubursata SKARBILOVICH 1946
(Chiroptera gen. sp.)
 Skrjabinocare skrjabini GUSHANSKAYA 1950b
(Phalacrocorax carbo)

*Neither an original work by Ayupov nor a description of the nematodes named could be found; however, the parasite is mentioned in a table of hosts in Volume 4 of the "Identifying Key to Nematode Parasites" (Skryabin, Shikhabalova, Sobolev, Paramonov and Sudarikov 1954).

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Skrjabinocara timofejevi GUSHANSKAYA 1950b
(Phalacrocorax pygmeus)
 Skrjabinocara victori GUSHANSKAYA 1950b
(Phalacrocorax pygmeus)
 Skrjabinocerina petrovi MACHULSKIY 1952
(Alactaga salata, mongolica)
 Skrjabinocava longifuniculata SOBOLEV 1952a
(Charadrius sp.)
 Skrjabinocata petrovi CHERTKOVA 1946b
(Streptopelia orientalis meena)
 Skrjabinocra saiga GNEZDINA & VSEVOLODOV 1947
(Saiga tatarica)
 Skrjabinovia gregorii SHULTS & ANDREEVA 1950
(Microtus brandti)
 Sobolevius petrovi ROMANOV 1952
(Marten zibellina)
 Spiculocaulus andrejevoi BOEV & MURZINA 1948a
(Capre hircus, Capreolus capreolus)
 Spiculocaulus orloffi BOEV & MURZINA 1948a
(Ovis aries, Capra sibirica)
 Spiculopteragia alcis SHULTS, KADENATSII, YEVRANNOVA & SHALDYBIN 1952,
 in SKRYABIN, SHIKHOBALOVA, SHULTS, POPOV, BOEV & DELIAMURE 1952
(Alces alces, Capreolus capreolus)
 Spiculopteragia kotkascheni ASADOV 1952
(Capreolus capreolus)
 Spiculopteragia matheveosianii RUKHLYAEV 1948a
(Capreolus capreolus)
 Spirocercia vigissiana KADENATSII 1946
(Vulpes corsac)
 Splendidofilaria verrucosa OSHMARIN 1950b
(Garrulus glandarius)
 Strongyloides turkmenica KURTEVA 1957
(Khimantopus candidus)
 Syngamus anterogonimus RYZHIKOV 1949a
(Calidris subminuta)
 Syngamus arcticus RYZHIKOV 1952a
(Gavia stellata)
 Syngamus gibbocephalus RYZHIKOV 1949a
(Capella stenura)
 Syngamus palustris RYZHIKOV 1949, in RYZHIKOV 1950
(Philomachus pugnax, Tringa erythropus)
 Syngamus ryjikovi SADOVSKAYA 1950
(Apodemus agrarius, A. speciosus)
 Syngamus skrjabinomorpha RYZHIKOV 1949b
(Anser anser domesticus, Gallus gallus domesticus)
 Syngamus taiga RYZHIKOV 1949b
*(Nucifraga caryocactes, Acrocephalus schoenobaenus,
 Motacilla alba)*
 Synhimantus yamagutiana SOBOLEV 1949, in SKRYABIN, SHIKHOBALOVA &
 SOBOLEV 1949
(Strix uralensis)

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Tetrameres ardeae SHIGIN 1953
 (Ardea cinerea)
 Tetrameres grusi SHUMAKOVICH 1946
 (Grus grus)
 Tetrameres limicollis SERKOVA 1948b
 (Charadrius dubius, Recurvirostra avocetta, Vanellus vanellus)
 Tetrameres pavonis CHERTKOVA 1953
 (Pavo cristatus)
 Tetrameres puchovi GUSHANSKAYA 1949, in SKRYABIN, SHIKHOE/ OVA &
 SOBOLEV 1949
 (Fulica atra)
 Tetrameres timopheevoi PETROV & CHERTKOVA 1950b
 (Alectoris karelik)
 Thomomys marii RUKHLYADEV 1946
 (Desmana moschata)
 Trichocephalus capreoli ARTYUKH 1948
 (Capreolus capreolus)
 Trichocephalus concolor BURDELEV 1951
 (Felis concolor)
 Trichocephalus dzejrants ARTYUKH 1948
 (Gazella subgutturosa)
 Trichocephalus georgicus RODONAYA 1950
 (Vulpes vulpes, Canis aureus)
 Trichocephalus lani ARTYUKH 1948
 (Cervus dame, C. hortulorum, Alces alces)
 Trichocephalus longispiculum ARTYUKH 1948
 (Ovis aries, Rangifer tarandus, Cervus hortulorum, Capreolus
 capreolus, Alces alces, Ovis ophion, O. orientalis, Nemorhaedus
 raddeanus)
 Trichocephalus spalacis PETROV & POTEKHINA 1953b
 (Spalax microphthalmus)
 Trichocephalus surka GARKAVI 1950c
 (Marmota sp.)
 Trichostomylus andreevi GRIGORYAN 1951
 (Capreolus capreolus).
 Troglotrichostomylus assadovi SADYKHOV 1952, in SKRYABIN, SHIKHODALOVA, SHULIN,
 POPOV, BOEV & DELYAMURE 1952
 (Lynx lynx)
 Ularofilaria papillocerca LYUBIMOV 1946
 (Tetraogallus altaica)
 Uncinaria skrjabini MACHULSKIY 1949b
 (Martes zibellina)
 Victorocara schejkini GUSHANSKAYA 1950c
 (Terekzia cinerea)

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Acanthocephales

Centrorhynchus lanceoides PETROCHENKO 1949b
 (Turdus merula intermedius)
 Centrorhynchus skrjabini PETROCHENKO 1949b
 (Corvus corone orientalis, Turdus merula intermedius, Turdus
 viscivorus, Pica pica)
 Mediorhynchus orientalis BELOPOLSKAYA 1953b
 (Charadrius dubius curonicus)
 Oncicola skrjabini MOROZOV 1951
 (Canis lupus)
 Polymorphus actuganensis PETROCHENKO 1949b
 (Anas platyrhynchos, Nettion crecca)
 Polymorphus kostylewi PETROCHENKO 1949b
 (Oidemia fusca)
 Polymorphus mathevossianae PETROCHENKO 1949b
 (Oidemia fusca)

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VI. Biology

In this field it has been possible to elucidate some cycles of development of parasitic worms. Of considerable practical interest are studies dealing with the biology of Alaria alata. Potekhina (1950, 1951) discovered that for the development of this trematode three hosts are required: fresh water molluscs (Planorbis vortex and Planorbis planorbis), tadpoles or frogs (Rana temporaria and Rana esculenta) and carnivora of the family Canidae (as final hosts). Intermediate hosts have also occurred, in which case a reencystation of the larvae result. The development from ovum to miracidium took 11 to 12 days at optimal temperature (70 - 81°F). The entire development from ovum to fully developed individual requires from 92 to 114 days. Experimental intermediate hosts are possible: the white mouse (Potekhina, 1950), the ring-snake (Dubinin, 1953b), mink (Petrov and Dubnitskiy, 1950a), the hedgehog, the mole and also birds (Savinov, 1953b). In the delta regions of the Volga, Dubinin (1952a, 1953b) found considerable numbers of metacercariae and mesocercariae. The latter work (Dubinin, 1953b) contains a very clear diagram giving a general view of the possibilities of infection and transmission in all the stages of Alaria.

Problems relative to the development of the lancet-shaped Dicrocoelium lanceatum were treated in Transcaucasia (Armenia, Azerbaijan) by Asadov (1946, 1950), and Svedzhyan (1951, 1953), and in Turkestan (Uzbekistan) by Samadov (1946b, 1947c).

I. V. Orlov (1948d) examined molluscs which may be used as intermediate hosts by the trematode of the beaver, Stichorchis subtriquetra.

Some briefer biological reports dealt mainly with trematodes on birds: Ginetsinskaya (1949b); Shulman-Albova (1951) (Odocoileus atomon); Tselikman (1953) (Gymnophallus affinis); Belopol'skaya (1949a) (Spelotrema arenaria); Ginetsinskaya and Kulik (1952) (Patagifer bilobus); Nevostrueva (1953a)

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(Echinoparyphium petrovi); (1953b) (Echinostoma miyagawai); Ginetsinskaya (1949c) (Cyclocoelum microstomum).

Finally some works on general trematodology may be mentioned: Oshmarin (1950c); Ginetsinskaya (1950, 1953a), Ginetsinskaya and Saakova (1952).

In the field of cestodology we should like to mention first the works by Pavlovskiy and Gnedilov (1949) on the majority factor in experimental infection with Diphyllobothrium latum, and by Dubinina (1951) on the biology and the geographical area of Diphyllobothrium erinacei. Dubinina (1950b, 1953b) treated the development of Ligula intestinalis and Diagramma interrupta (tapeworms).

Dubnitskiy (1952) occupied himself with the taenia Multiceps endothoracicus. Ivanova, Ulyanov and Grinberg (1950) examined the occurrence of Cysticercus tenuicollis in lambs. Of interest is that in the area examined no specimens of Taenia hydatigena were found in dogs, so that wolves or other wild animals must be considered as infective foci. Cysticercus pisiformis in rabbits was studied by Potselueva (1953). Miretskiy (1948) compared the oncospheres of Taenia solium and of Taenia saginata.

Garkavi (1950a) reported briefly on the biology of Fimbriaria fasciolaris in domestic ducks and in the common wild duck. Problems of the Anoplocephalidae and their carriers were treated by Potemkina (1948) and Soldatova (1948).

Among general works on biological questions of the cestodes may be mentioned Dubinina (1950a) and Olinger (1950), both dealing with the des-trobilization of tapeworms. Other contributions are by Logachev (1952a, b, c, d; 1953a, b, c) and Matevosyan (1950b).

In the field of nematodes we first deal with pulmonary worm infections. Questions of the biology of Dictyocaulus viviparus are treated in the works by Morozov and Kryukova (1948) and by Takhistov (1948). Other

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works on pulmonary worms are by Davtyan (1948, 1949a), Bolkhovitinov (1946), Morozov and Kryukova (1947) and Tsvetkov and Matekin (1946).

Biological details of the ascarides have been treated by Mozgovoy (1952b), Spasskiy (1952a) and Vinnitskiy (1946b). Sudarikov and Ryzhikov (1951b) succeeded in elucidating the development of Contracaecum osculatum, an ascaride in a seal of Lake Baikal, the Phoco sibirica. First intermediate hosts are the species of Gammarus; second intermediate host is a fish called Cottocomephorus grawingki. Another species of Contracaecum, Contracaecum bidentatum, has been studied by Geller and Babits (1953). The rediscovery of Ascaris tarbagani in a marmot in Central Asia (marmota caudata), enabled Mozgovoy (1948) to study intensively the development of this parasite. Dubinin (1948) occupied himself with the same problem. Other works are from Mozgovoy (1952a, 1952c), on Corrocaecum crassum, and from Samadov (1946a), on Ascaridia lineata. Petrov (1950b) examined the role of intermediate hosts in the spreading of toxocarosis of Arctic foxes.

Solodilova (1950) and Borovkova (1949) treated the development of Thomix aerophilus (= Capillaria aerophila); the latter noticed that the thomoxnosis of Arctic foxes is transmitted by various earthworms (Lumbricus rebellus, Lumbricus terrestris, Allolobophora caliginosa and Bimastus tenuis). Skarbilovich (1950b) noticed that the transfer of Capillaria mucronata in mink and sable occurred in the same way.

Other short communications come from Gagarin (1953) (Capillaria caudinflata in poultry); Petrov and Dubnitskiy (1946) (Strongyloides vulpis in the Arctic fox); Kharichkova (1953) (Oesophagostomum venulosum and Oesophagostomum radiatum); Myasnikova (1946) (Oesophagostomum dentatum), Romanova (1948a) (Cyathostoma in the emu); Kharichkova (1946b) (Passalurus ambiguus).

Smirnov and Kamalov (1946) examined the behavior of larvae of Ancylostomatidae in optional hosts. In another work they examined the predisposition

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of amphibious animals to percutaneous infection with the larvae of Ancylostomatidae.

Finally, a number of publications on Spirurata may be mentioned. The biology of the agent of the thelaziasis in cattle was studied by Klesov, Ivanov and Popova (1948), Krikunov (1948), Krastin (1950, 1952a, b), Krastin and Ivashkin (1946). Draschia megastoma was described by Gorshkov (1948a). I. V. Orlov and Romanova (1953) studied Travassosius rufus, a parasite in the stomach of the beaver. Ryzhikov (1952b) found that the dorbeetle, Geotrupes stercorearius, was an intermediate host of Phyocephalus sexalatus. Of interest also are two works by Romanova (1947, 1948b) on Echinuria uncinata, the intermediate hosts of which are Daphnia pulex and Daphnia magna. Also noteworthy are studies of Tetrameris fissipina (Garkavi, 1949b), Stretocara crassicauda (Garkavi, 1949a; 1950b) and Cheilospirura hamulosa (Dotsenko, 1953).

The works by Petrochenko (1949a and 1950a) are studies of the biology of the Acanthocephaleae. Skryabin (1913) determined that gammarus lacustris was an intermediate host for Polymorphus magnus. The development from the ovum to the larva capable of an infection (the so-called acanthella) in the intermediate host requires from 54 to 60 days. From the moment of invasion of the final host (duck) to the expulsion of the ovum requires from 27 to 30 days.

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VII. Helminthogeography

For more than 30 years, Russian helminthologists have been paying special attention to this particular branch of studies. Skryabin and Pavlovskiy and their followers have been able to collect a large amount of material from all parts of the Soviet Union, which has done much to advance systematic research work. An exact chronological enumeration of all helminthological expeditions in the Soviet Union before World War II has been given by Skryabin (1946a) (first expedition in 1919 to the northern coast of the Sea of Azov; the 209th expedition in 1940, into the national reservation near Voronezh). The systematic editing of the material obtained in these years requires so much time that results of earlier expeditions are still being published. Gushanskaya (1950a) investigated the worm fauna (Tetraonidae) of poultry in the Far East, the Island of Sakhalin and the Ural mountains on the basis of findings of the 60th, 61st and 70th expeditions in the years 1928 and 1929. In two works, Sudarikov (1951 and 1952) discusses the ecological correlations of the worm fauna of the vertebrate animals of the middle Volga (on the basis of the material obtained in the 63rd and 79th expeditions in the years 1929 and 1930). I. V. Orlov (1948a) published the results of the 209th expedition of the year 1940. Among the expeditions after World War II, the following are noteworthy: in 1945, the 250th expedition into the Kirghiz Soviet Republic (Matevosyan, 1951); in 1946 the 257th to Lake Chany in West Siberia (Mozgovoy, Spasskiy and Popova, 1951; Spasskaya, 1949); in 1946, the 260th to the Pacific to explore the helminths of marine mammals (Oshmarin, 1951); in 1947, the 264th into the reservation called "Jungle of Belovezh" (Mozgovoy and Popova, 1951). The 265th expedition, in 1947, went to the Pechora River and investigated the medical-epidemiologic problems of the inhabitants of that area, for example, the spreading of various types of Diphyllobothrium, occurrence of Taenia-

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rhynchus saginatus, Hymenolepis nana, Ascaris lumbricooides, Trichuris trichura and Enterobius vermicularis (Pod-Yapolskaya, 1948a; Pod-Yapolskaya, Spasskiy and Ryzhikov, 1951). In 1948, the 268th expedition went to West Georgia (Ryzhikov 1951); in 1948, the 270th went to the coastal regions of the Far East (Sedokov 1951); in 1948, the 272nd to Lake Baikal (Ryzhikov and Sudarikov 1951) and 1949, the 273rd to the district of Kustanay in the Kazakh Soviet Republic (Gagarin 1951). Mentioned in this connection are the compilation Parasitology of the Far East (Pavlovskiy, 1947) and a compilation called Epidemiologic-parasitologic Expeditions to Iran and Parasitologic Research, published in Moscow in 1948.

Some general questions of helminthogeography and of the fauna and ecology of worms are treated in the works by Dogel (1949), Fedyushin (1946b, 1948a and b), Kasimov (1953) and Levashov (1952).

Krotov (1953) reported on the cestodes of the Soviet Union. I. V. Orlov and Dineemon (1948) investigated the larvae of Stichorchis in molluscs of the Usmanka River. Chertkova (1950a) discerned some rare worms in domestic gallinaceous birds: Metorchis pinguinicola (Skryabin, 1913 (Trematode) in the gall-bladder of the domestic fowl from the district of Astrakhan; Capillaria bursata Freitas and Almedia, 1934 (Nematoda) in the small intestine of the domestic fowl from Tambov, Kostroma and Vladivostok; Capillaria comboligoides Erlich and Mikacic, 1940, in the crop of a domestic turkey-hen from the district of Moscow and Thomoxen cadovulata (Madsen, 1945) in the intestine of a peacock from the zoological garden in Moscow. Gushanskaya (1952a) reported various findings of trematodes, cestodes and nematodes in birds of the families Tetraonidae and Phasianidae. Belopolskaya (1953b) contributed some studies on the worms in limicoles. Skaribovich (1946) occupied himself with cestodes and nematodes in bats, using the findings of various helminthological expeditions. His work contains a key for the

determination of the Hymenolepididae (Cestoda) of the Chiroptera. Of shorter works, dealing with worms found in some mammals, may be mentioned: I. O. Orlov (1948b) (beaver); Spasskiy (1953b) (muskrat); Ozerskaja (1953) (wild boar); Rukhlyadev and Rukhlyadeva (1953) (brown bear).

The works by Delyamure (1950, 1952a and b, 1953) are also interesting. They deal with the problems of the worm fauna of the Pinnipedia and cetacea. In this connection, some shorter publications by Mozgovoy and Ryzhikov (1950) may be mentioned, dealing with the origin of the Lake Baikal seal in the light of helminthological research.

In mentioning some larger geographic districts, in which the worm fauna has been more closely investigated, we should like to point out that for a more careful study of these problems, consultation of the original publications is recommended. Some of them are rather voluminous and contain a wealth of matter which it is impossible to convey even in detailed individual reports.

The districts explored by helminthologic expeditions have already been enumerated. We now point to some works relating to the European part of Russia. Olinger (1952) devoted his thesis to the parasitic fauna of various kinds of poultry (Tetraonidae). Spasskiy (1946) reports on cestodes discerned in various wild fowl from Smolensk, Orel, Mogilev and Gomel. Shulman (1949) presented a medical dissertation with helminths in men in the Ukraine and the history of this study. Most frequently found are ascariasis, trichocercosis, enterobiasis, and attack by Taenia solium, Taenia saginata and Hymenolepis nana. Diphyllobothrium latum, Taenia cucumerina and echinococcus are found less often. The author also points to the frequent occurrence of the Opisthorchosis on cats (52.8 percent) and in dogs (15.4 percent). Intermediate hosts in the Ukraine are the snail Bithynia leachii (first host) and some fish of the family of the Cyprinidae (second host). Finally, one case of Gongylonema pulchrum and one of Dirofilaria repens in men is mentioned. A work by Gumenuk (1953) deals with worms in dogs, cats,

rats, and mice/the town of Chernovtsi. Zheltvay (1953) reported cases of taeniasis in poultry in the Transcarpathian region. Kulachkova (1950) investigated gulls and seagulls of the Danube delta. A larger work by Rukhlyadev (1948b) dealt with parasites and parasitic diseases of wild hooved-animals and of beasts of prey in the Crimea. Kadenatsii and Amelina (1947) report neoscaridiasis of calves in the Crimea. Butorin (1952) explored the dynamics of the most important helminths in domestic animals in the district of Yaroslavl. Several publications concern the helminth fauna in the district of Gorkiy (Mashkov, 1947; Ryzhova, 1948; Spasskiy, 1947c; Sudarikov, 1950a). Helminthiasis of poultry in the district of Leningrad has been studied by Shats (1946), Ginetsinskaya (1947a), and Bykhovskaya-Pavlovskaya (1953b). Vasiliiev (1949) reported parasites discerned in rodents and insectivores in the surroundings of Leningrad. Ryzhikov, Chertkova and Veytsman (1952) found the following worm parasites in guinea fowl of the zoological garden in Moscow: Syngamus skrjabini-morpha Ryzhikov, 1948 (exp.), Heterakis Gallinae (Gmelin, 1790), Freeborn, 1923, Capillaria columbae (Rudl, 1819), Capillaria caudinflata (Molin, 1858), Thomina collaris (Linstow, 1873), and one Hymenolepis sp. Krotov (1946), in a short communication, reported dictyocaulosis of calves in Chuashen. Yefimov (1946) investigated the worm fauna of some domestic and wild animals of the Tatar Republic. Morozov (1951) classified material obtained in the years 1946-47 through investigation of wolves in the Mordvinian National Reservation (trematodes: Alaria alata; cestodes: Taenia hydatigena, Taenia krabbei, Dipylidium caninum, Mesocestoides lineatus; nematodes: Toxascaris (?) canis, Toxascaris leonina, Spirocerca sanguiolenta; acanthocephaloidea: Oncicola skrjabini, nov. sp.).

A number of works dealt with the worms of the birds (Ginetsinskaya, 1949a; 1952; 1953b), wild boars (Dubinin, 1952b) and mice-like rodents of

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A number of works dealt with the worms of the birds (Ginetsinskaya, 1949a; 1952; 1953b), wild boars (Dubinin, 1952b) and mice-like rodents of

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the Volga delta (Dubinin, 1953b) and with the larvae of parasitic worms occurring in that district (Dubinin, 1949b; 1952a).

Finally to be mentioned is the work on nematodes of birds, collected in 1947 in the Komi district (Gushanskaya, 1951a) and a publication dealing with the parasitic fauna of muskrats in the Karelo-Finnish Soviet Republic (Serkova, 1948a).

Publications on the Caucasus are also numerous. In a thesis, Grigoryan (1951) explored the worm fauna of the wild ruminants of Armenia and their role in the spreading of vermination among sheep and goats. Rukhlyadov (1952) in the years 1946 through 1948 investigated the helminth fauna of the wild boars in the Caucasian National Reservation. Worms in the jackals in Azerbaydzhhan were investigated by Sadykhov (1953). Nasilov (1948) did research work on dirofilariasis in dogs with a view to determining its spread in Armenia. Two shorter writings described the vermination of the sheep in Azerbaydzhhan (Gaibov, 1949) and in Georgia (Burzhanadze, 1946). Various publications are devoted to Caucasian rodents: Akhunyan (1948b) and Kirshenblat (1948) dealt with worm fauna in Armenia. Vysotskaya (1948) studied the parasitic fauna of the field mouse of the northern Caucasian Mountains. Soesnina (1949) occupied herself with the parasites in dormice (*Glis glis caspicus*) in the Caucasian National Reservation. Kirshenblat (1949) described those of the Caucasian hamster (*Mesocricetus auratus brandti* Nehr). Several publications (Kasimov, 1946a and d; 1947b) have been devoted to worms in the Caucasian partridge (*Alectoris kakelik caucasica* Sushk) and in the Transcaucasian frankolin (*Francolinus orientalis caucasicus* But).

The following works concern Central Asia: Massino & Demidova (1947) contributed to the investigation of the helminth fauna of the animal world of Kirghizia. Volkova (1950) occupied herself with nematodes which were

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found in horses in the district of Dzhalal-Abad (Kirghizia), namely: *Setaria equina*, *Habronema muscae*, *Strongylus equinus*, *Strongylus edentatus* and *Strongylus vulgaris*; small *Strongylidae*: *Trichonema* spp., *Cylicocyclus* spp. *Schulzetrichonema goldi* (Boulenger, 1917), *Cylicodontophorus* spp., *Petrovinema poculatum* (Loosse, 1900), *Poteriostomum* spp., *Gyalocephalus capitatus* (Loosse, 1900).

The helminthological examination of 50 cats in the city of Samarkand permitted Smirnov (1946) to determine that 96 percent of the animals were affected by worms (*Taenia taeniaeformis*, *Dipylidium caninum*, *Diplopystidium nollerii*, *Mesocestoides lineatus*, *Toxocara mystax*, *Toxascaris leonina*, *Uncinaria stenocephala*). He has also investigated the worm fauna of dogs in the interior regions of Asia. Karabaev (1946) occupied himself with the thelaziiasis of sheep in the district of Balkhash (Kazakh Soviet Republic). Badanin (1948) and Bondareva (1948) supplied information on the worm fauna of the camel in Uzbekistan and Kazakhstan. The worm fauna of marmots in Turkestan is described in publications by Badanin and Murashov (1948), Garkavi (1950c) and Spasskiy, Ryzhikov and Sudarikov (1950). Gvozdev (1948b) supplied contributions on the parasitic fauna of a hare caught in Central Asia, *Lepus tibetanus* Waterh., 1841. Other articles are on the parasitic worms of wild living ruminants in Kazakhstan: Sokolova (1948b); Sokolova and Bondareva (1948), Boev, Sokolova and Bondareva (1948).

The helminth fauna of some mammals of prey in Tadzhikistan has been investigated by Petrov and Potekhina (1953a). Finally, various communications on parasites in birds in Turkestan are to be mentioned. Two works deal with cestodes (Dubinina, 1950c) and filaria (Dubinina and Serkova, 1951) birds hibernating in the southern districts of Tadzhikistan. In Kirghiz birds in the region of Dzhalal-Abad, Omedina and Potekhina (1950) found specimens of the following families of trematodes: *Dicrocoeliidae*, *Brachylaemidae*, *Echinostomatidae*, *Eucotylidae*, *Notocotylidae*, *Strigeidae*

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and Schistosomatidae. Matevosyan (1950d) described some cestodes found in birds in the southern part of Kirghiz. He found specimens of the families Hymenolepididae, Dilepididae, Paruterinidae, Davaineidae and Diphyllothoracidae. Petrov and Chertkova (1950c) applied themselves to studies on the nematodes in birds and Petrochenko (1950c) chose as his subject the Acanthocephales of birds in the same region (all these reports are partial results of the 225th and the 250th expeditions into South Kirghizia). Other works described nematodes in Kirghiz swans (Lyuimova, 1947), the worm fauna of the brown ibis in Kazakhstan (Statirova, 1946) and nematodes in various birds of the lower course of the Amu-Darya (Krotov, 1952b).

We should like to close this chapter by mentioning some voluminous contributions to the geographic helminthology of Siberia and the Far East of the Soviet Union.

Particular attention has been paid to the lake district of the Barabian steppe in west Siberia (Lake Chany in the district of Novosibirsk) with its abundant feathered world (Pavlovskiy, 1948c). Bykhovskaya-Pavlovskaya (1952; 1953a) investigated the trematodes in birds in that region, Dubinin (1953a), the cestodes; and Serkova (1948b) the filaria. Bykhovskaya (1948) and Petrochenko (1950d) engaged themselves in studies of the Acanthocephales. Contributions to the worm fauna of Siberian poultry (Tetraonidae) were made by Gushanskaya (1946), who based his work on the results of an expedition to the district of Kemerovo. Other findings in Tetraonidae and also in Phasianidae in west Siberia and in the southern Urals have been registered by Fedyushin (1949b). Kopyrin (1946) examined the domestic geese in the region of Omsk and noticed that 91.7 percent of them were attacked by worms, chiefly by nematoda (Amidostomum anseris, Heterakis dispar, Trichostrongylus tenuis, Capillaria anatis, Cyathostoma bronchialis, Tetramerites travassosi); also found were three species of Cestoda (Drepanidotaenia lanceolata, Hymenolepis setigera and Hymenolepis

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fasciata) and two species of Trematoda (Notocotylus attenuatus and Echinostoma revolutum). Shorter communications were on the helminths of the domestic poultry of west Siberia (Fedyushin, 1953a), on the acanthocephalic fauna of wild and domestic birds of the region of Chelyabinsk (Okorokov, 1953) and the opisthorchiasis of wild foxes in west Siberia (Kadenatsii, 1953).

Oshmarin (1948) devoted a thesis to the worms in useful animals (fish, birds, mammals) in Buryat Mongolia and identified 11 new species of worms. The helminths of some wild mammals in the region of Lake Baikal were investigated by Spasskiy, Ryzhikov and Sudarikov (1952).

In another work, Sudarikov and Ryzhikov (1951a) described two parasites of hooved animals in the Baikal district (Dicrocoelium orientalis n. sp. in the bile duct of the Moschus moschiferus L., and Trichocophalus capreoli Artyukh, 1948 in deer). Spasskiy and Ryzhikov (1951) describe the worms in the mountain rodent Ochotonota alpina Pall of the Lake Baikal region. Various works by Machulskiy deal with worms found in Buryat Mongolia in muskrats (1948a), in foxes beyond Lake Baikal (1949a), in sables (1949b) and in martens (1953). Another work on sables (Machulskiy, 1948b) concerns worms found in the Transbaikal regions and in east Siberia. The helminthic fauna on the Ussuric marten (Nyctereutes procyonoides Gray 1834) was examined by Gusev 1941. Two publications deal with determinations of filaria in mammals and birds in the Far East (Oshmarin 1950b; Oshmarin and Belous, 1951). Shcherbovich (1946) determined various trematodes in birds in the Far East and issued two new descriptions (Hyperosomum amurense nov. sp. from the liver of Lanius cristatus, Khabarovsk, and Pachytrema compositum nov. sp. from the gall bladder of Sterna longipennis, Far East). Several new sp. from the gall bladder of Sterna longipennis, Far East. Several new trematodes, cestodes and nematodes were determined by Oshmarin (1950a) in sea birds off the coasts of Kamchatka, in the Koryak Country and in the Kurile Islands. There are also two works (Shumakovitch, 1948; Krotov and

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Delyamure, 1952) on worms found in sea mammals and birds of the Island of Sakhalin. Following a postmortem examination of ten ograls (Nemorhaedus goral Harwicke, 1825) in the zoological garden of Moscow, but which originated from the Sudzukh National Reservation, Shults and Kadenatsii (1950) publish a list of the parasites found in the animals and describe three new nematodes.

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VIII. Final Remarks

As a conclusion to this short account some questions may be mentioned which could not be examined in detail in the various chapters. First of all, the reader may have noticed a preponderance of veterinary-helminthological literature, whereas medical helminthology occupies only a small space. Historical factors account for this discrepancy. As in other regions of the temperate and of the Arctic zones, the worm fauna of man has been thoroughly studied during the last hundred years, so that new sensational discoveries are hardly to be expected. Helminthological research related to man can thus have in mind only a refinement of well-known methods of examination and may concentrate its efforts on medical drugs as well as on questions of epidemiology, clinical treatment and pathology. Veterinary helminthology, on the other hand, was still in the state of fundamental research so that, with the wider possibilities given, far richer results could be expected. This applies especially to the worm fauna of wild animals, a field which had been largely unexplored. The vast distances and the extension of the unexplored regions of Central Asia, Siberia and the Far East exclude all other procedures except research work on the scale of an expedition. The results obtained by means of these expeditions may also be of importance to us. In many respects the fauna of Russia corresponds to that of Central Europe or is linked to it by direct contacts (westward migration of wolves, rodents and certain groups of birds).

The period 1946 to 1953 has been chosen intentionally. From the political point of view, it comprises the last years of the reign of Stalin and was characterized by an isolation of Soviet research from that of the rest of the world. Results of prewar research had been published, to a large degree, in the periodicals of the western world which had become

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accessible during the war thanks to the cooperation of the Allies. Ten years after 1953 brought a certain relaxation in relations with the west. A final report on the entire field of helminthology in the Soviet Union cannot be made for several decades. At present, the only possibility that we have is to make the best use of those individual results becoming partly accessible through the available literature. Meanwhile, other helminthological publications have appeared. The year 1953 marks neither the climax nor the end of a definite era.

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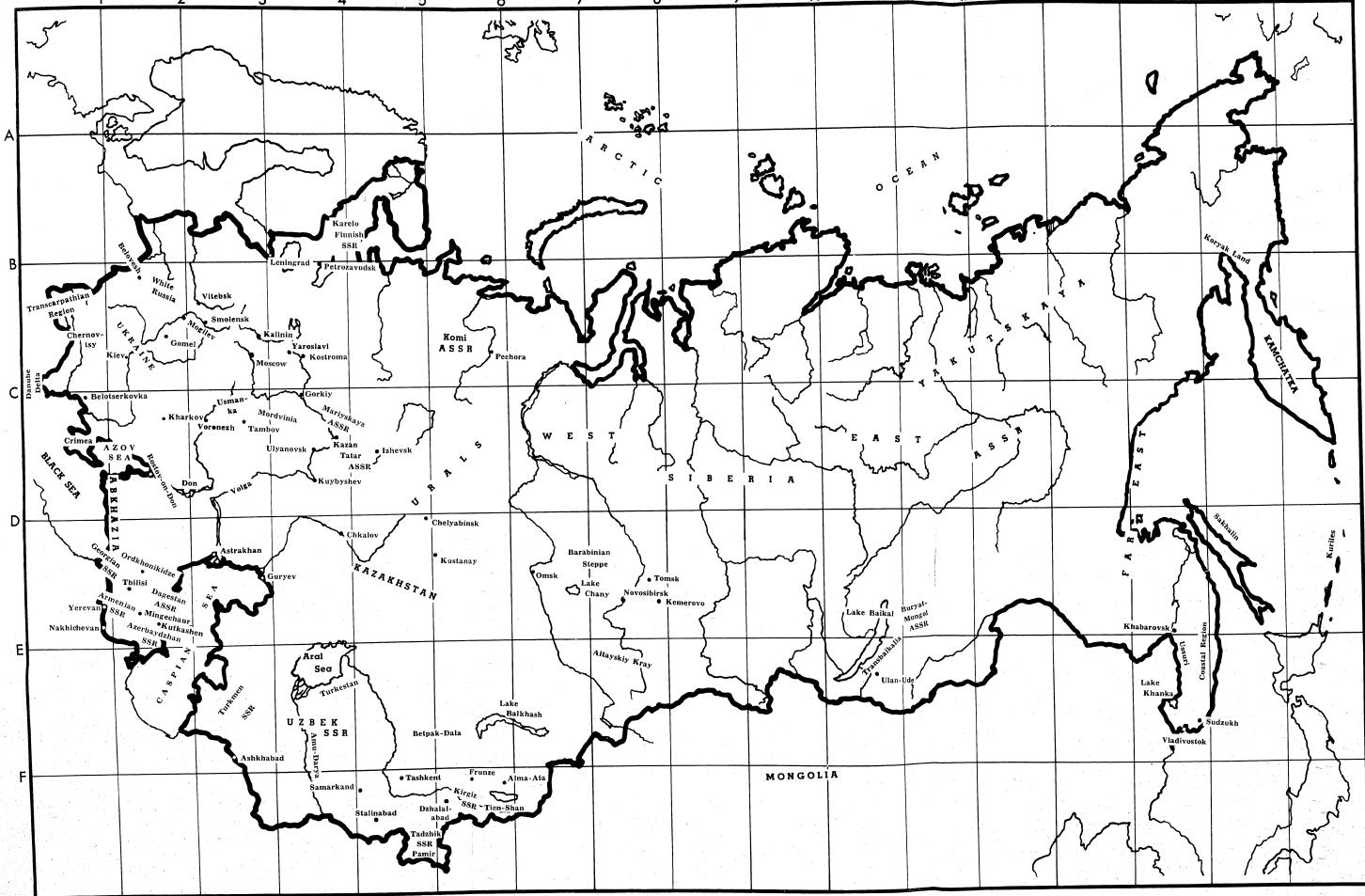
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